

TC-K630/K630ES

SERVICE MANUAL

US Model
AEP Model
UK Model
E Model
 TC-K630ES

Canadian Model
 TC-K630



Model Name Using Similar Mechanism	TC-W 550
Tape Transport Mechanism Type	TCM-CMAY B-27

SPECIFICATIONS

Recording system	4-track 2-channel stereo
Bias	AC bias
Heads	Erase head×1 (F & F head) Record head×1 (Permalloy head) Playback head×1 (LA head)
Motors	Capstan motor×1 (DC servo motor) Reel motor×1 (DC motor)
Wow and flutter	0.05% WRMS (NAB)
Fast-forward and rewind time	Approx. 90 sec. (with C-60 cassette)
Frequency response (DOLBY NR OFF)	

TYPE IV cassette (Sony METAL-ES)	20–21,000 Hz (±3 dB) 20–16,000 Hz (0VU recording)
TYPE II cassette (Sony UX-S)	20–19,000 Hz (±3 dB)
TYPE I cassette (Sony HF-S)	20–17,000 Hz (±3 dB)

Signal-to-noise ratio (NAB, at peak level)

Dolby NR switch	OFF	B-TYPE ON	C-TYPE ON
Cassette			
TYPE IV (Sony METAL-ES)	59 dB	66 dB	72 dB
TYPE II (Sony UX-S)	58 dB	65 dB	71 dB
TYPE I (Sony HF-S)	55 dB	62 dB	68 dB

Total harmonic distortion

1.0% (with Sony METAL-ES cassette)

Inputs

Line inputs (phono jacks)	Sensitivity	77.5 mV (–20 dB)
	Input impedance	50 k ohms

Outputs

Line outputs (phono jacks)	Rated output level	0.44 V (–5 dB) at a load impedance 47 k ohms
	Load impedance	Over 10 k ohms
Headphones (stereo phone jack)	Output level	0–2.5 mW at a load impedance of 32 ohms

General

Power requirements	120 V AC, 60 Hz
Power consumption	20 W
Dimensions	Approx. 430×118×345 mm (w/h/d) (17×4¾×13⅝ inches) including projecting parts and controls
Weight	Approx. 5.2 kg (11 lbs 8 oz)

Supplied accessory

Audio connecting cord (2)

Design and specifications subject to change without notice.

STEREO CASSETTE DECK
SONY®



FEATURES

The TC-K630ES is a cassette deck equipped with a laseramorphous magnetic alloy head using LC-OFC winding for playback, and features the following functions.

- **3-head system (separate record, playback and erase heads)** allows you to instantly check the recorded sound while recording is in progress.
- **Bias control** adjusts bias current to the optimum level and brings out the best in every tape.
- **The Dolby HX PRO* system** improves the linearity of the tape's high range response during recording.
- **Easy-to-read digital linear counter** shows the elapsed recording or playing time.
- **AMS, blank skip and music scan functions** provide easy access to a desired selection.

* Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

"DOLBY", the double-D symbol  "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:



Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST


The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

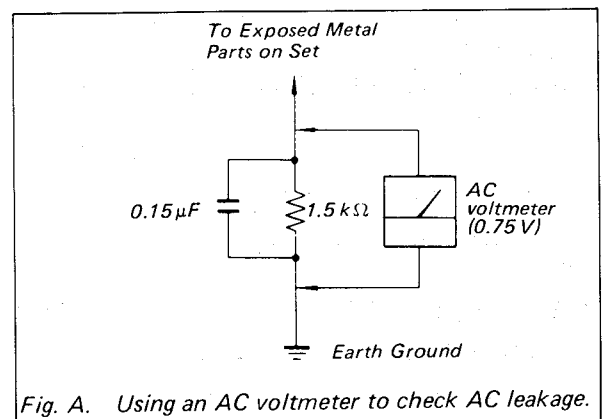


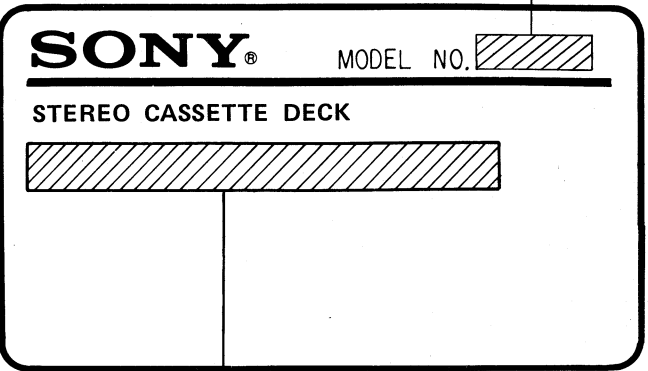
Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1
GENERAL

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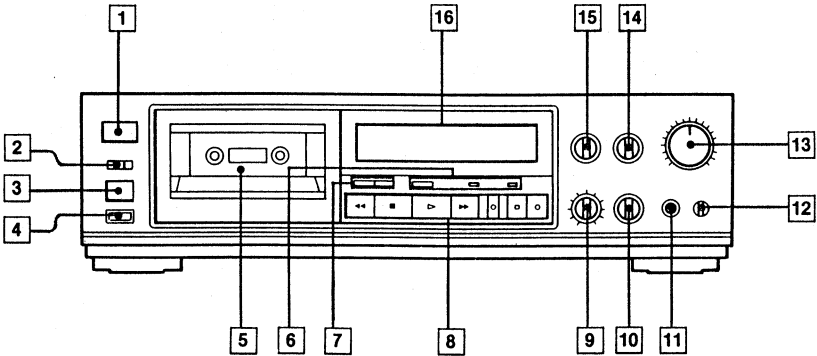
1-1. MODEL IDENTIFICATION
(Specification Label)



TC-K603
TC-K630ES

Canadian model: AC 120V 60Hz 20W (TC-K630)
US model: AC 120V 60Hz 20W
AEP model: AC 220V~50/60Hz 20W
UK model: AC 240V~50/60Hz 20W
E model: AC 120, 220, 240V~50/60Hz 20W

1-2. LOCATION OF CONTROLS



- 1 POWER switch
- 2 TIMER switch
- 3 Remote sensor*
- 4 (eject) button
- 5 Cassette holder
- 6 TAPE OPERATION button
AMS/BLANK SKIP and MUSIC SCAN indicators
- 7 COUNTER buttons
RESET button/MEMORY button
- 8 Tape operation buttons and indicators
◀ (rewind) button
■ (stop) button
▶ (play) button and indicator
▶▶ (fast-forward) button
● REC (record) button and indicator
|| PAUSE button and indicator
○ REC MUTE (record muting) button
- 9 BIAS (bias adjust) control
- 10 MONITOR switch
- 11 PHONES (headphones) jack (stereo phone jack)
- 12 LEVEL (headphones level) control
- 13 REC LEVEL (recording level) control
- 14 MPX FILTER switch
- 15 DOLBY NR switch
- 16 LINEAR COUNTER and PEAK PROGRAM METERS

* You can remotely control this cassette deck with:
—A remote commander that has an mark and comes with a Sony amplifier or receiver and which can be used to control a cassette deck.
—An optional Sony remote commander that has an mark.

SECTION 2
MECHANICAL ADJUSTMENTS

PRECAUTION

- Clean the following parts with a denatured-alcohol-moistened swab:
record/playback head pinch roller
erase head rubber belts
capstan idlers
- Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.

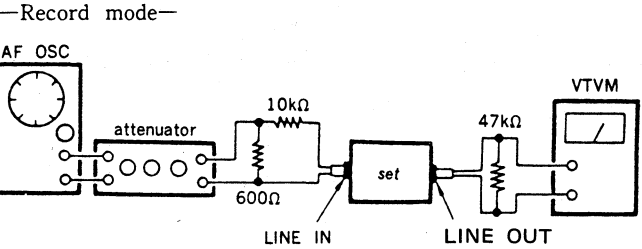
Torque Measurement

Torque	Torque meter	Meter reading
Forward	CQ-102C	30–70g•cm (0.42–0.97oz•inch)
Forward back tension	CQ-102C	2–6g•cm (0.028–0.083oz•inch)
FF/REW	CQ-201B	90–180g•cm (1.25–2.5oz•inch)

SECTION 3
ELECTRICAL ADJUSTMENTS

- The adjustment should be performed in the publication (Be sure to make playback adjustment at first.)
- The adjustment and measurement should be performed for both L-CH and R-CH.
 - Switch position
DOLBY NR switch: OFF
TIMER switch: OFF

- Standard record position
Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level as follows.



• Standard Input Level

Input terminal	LINE IN
source impedance	10kΩ
input signal level	0.25V (–10dB)

• Standard Output Level

Output terminal	LINE OUT
load impedance	47kΩ
output signal level	0.44V (–5dB)

Test Tape

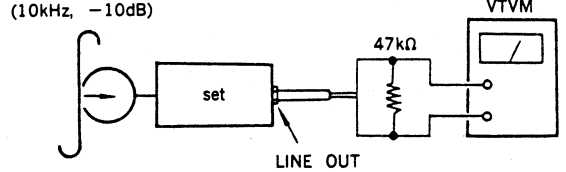
Tape	Contents	Use
P-4-A100	10kHz, –10dB	Record/Playback Head Azimuth Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment
P-4-L300	315Hz, 0dB	Playback Level Adjustment

Record/Playback Head Azimuth Adjustment

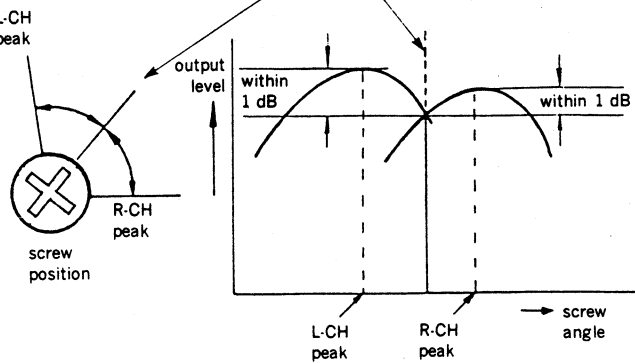
procedure:

- Playback Mode

test tape
P-4-A100
(10kHz, –10dB)

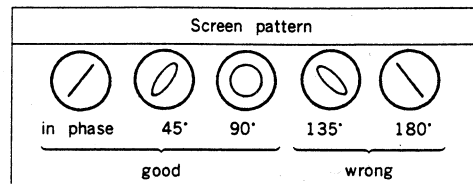
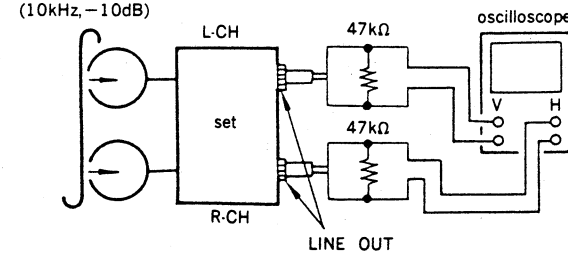


- Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.



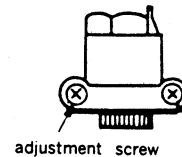
3. Phase Check

Playback mode
test tape
P-4-A100
(10kHz, -10dB)



4. After the adjustment, lock the adjustment screw with suitable locking compound.

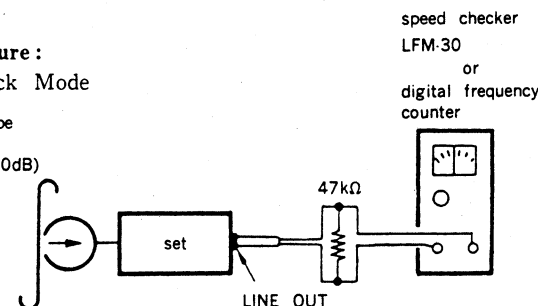
Adjustment Location: —record/playback head—



Tape Speed Adjustment

Procedure:
Playback Mode

test tape
WS-48B
(3kHz, 0dB)



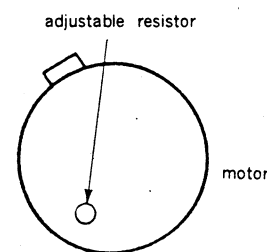
Specification :

Speed checker	Digital frequency counter
±0.5%	2.985—3.015Hz

Frequency difference between the beginning and the end of the tape should be within 0.08% (0.24Hz).

Adjustment Location :

adjustment the adjustable resistor of built in motor (adjustment by the insert to driver Speed in fastest that turn the clockwise.)

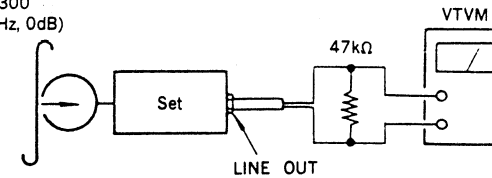


Playback Level Adjustment

Procedure :

Playback mode

test tape
P-4-L300
(315Hz, 0dB)



Specification :

Adjust RV101 (L-CH), RV201 (R-CH) so that within adjustment level as follows.

LINE OUT level: 0.41 to 0.46V

(-5.5 to -4.5dB)

Level Difference between Channels: Within 0.5dB

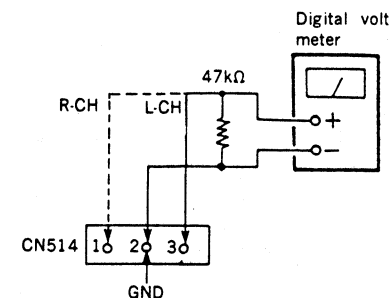
Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Bias Consumption Current Adjustment

Bias Consumption current adjustment is sure to front of record bias adjustment.

Behind the bias consumption current adjustment, record bias adjustment do over again.

1. Set the center to RV152 (L-CH), RV252 (R-CH) and REC/FWD for no-signal.
2. Connect CN514 with digital volt meter, adjust T151 (L-CH), T251 (R-CH) so that the minimum or digital volt meter.



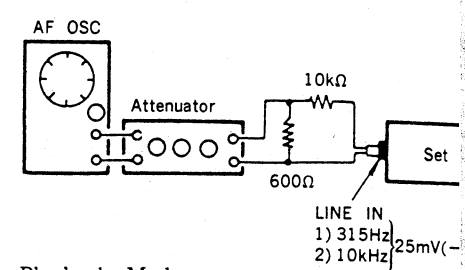
Record Bias Adjustrent

Setting :

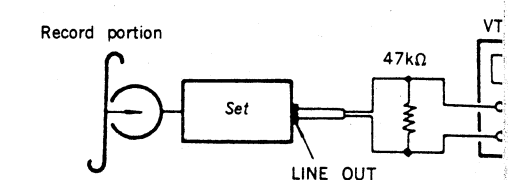
REC LEVEL knob shall be the specilied rec

Procedure :

1. Record Mode



2. Playback Mode



Adjust RV152 (L-CH), RV252 (R-CH) so that play 10kHz is 0.5±0.3dB.

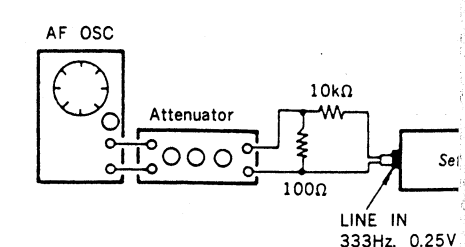
Record Level Adjustment

Setting :

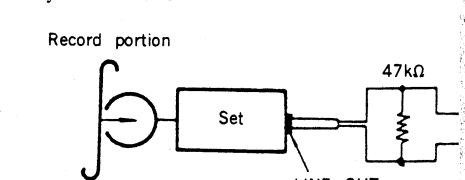
REC LEVEL knob shall be at the specified

Procedure :

1. Record Mode



2. Playback Mode



Specification :

Adjust RV151 (L-CH), RV152 (R-CH) so that wi level as follows.

LINE OUT Level: CS-122

0.42 to 0.45V

(-5.3 to -4.7dB)

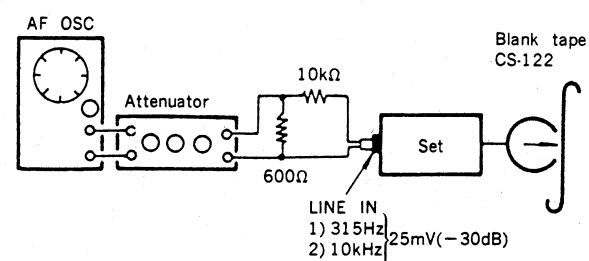
Record Bias Adjustrent

Setting :

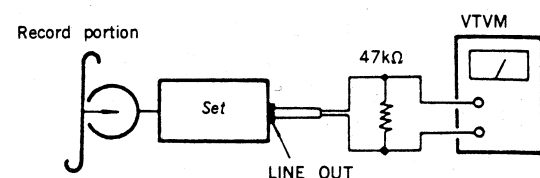
REC LEVEL knob shall be the specilied record position.

Procedure :

1. Record Mode



2. Playback Mode



Adjust RV152 (L-CH), RV252 (R-CH) so that playback output of 10kHz is 0.5 ± 0.3 dB.

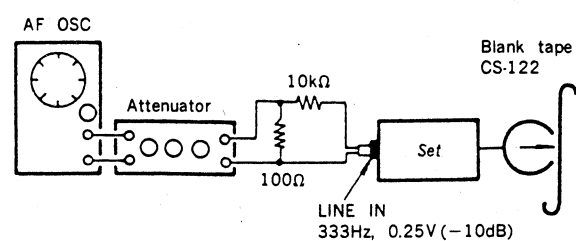
Record Level Adjustment

Setting :

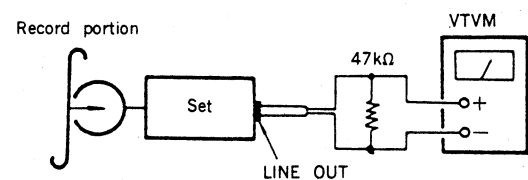
REC LEVEL knob shall be at the specified record position.

Procedure :

1. Record Mode



2. Playback Mode



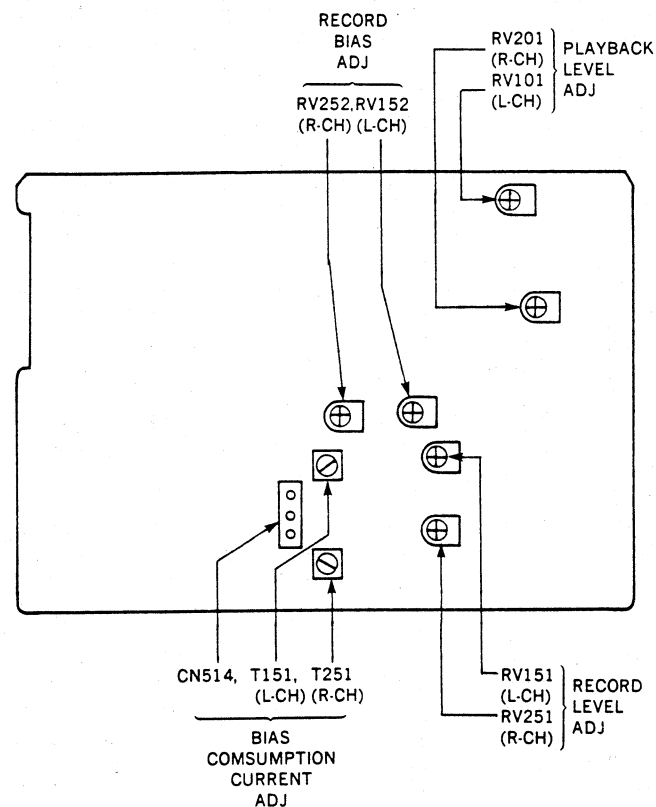
Specification :

Adjust RV151 (L-CH), RV152 (R-CH) so that within adjustment level as follows.

LINE OUT Level: CS-122

0.42 to 0.45V
(-5.3 to -4.7dB)

Adjustment Location : main board



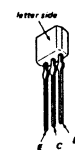
4-2. PRINTED WIRING BOARDS

4-1. SEMICONDUCTOR LEAD LAYOUTS ● Semiconductor Location

DTA114ES
DTA144ES
DTB114ES
DTC114ES
DTC143TS
DTC144ES
2SD2144S



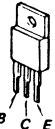
2SA1150
2SC2785



2SA1409-L
2SA733
2SB1013
2SC3623-L
2SD1387



2SB1094-L
2SD1585-L



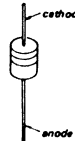
2SB1116



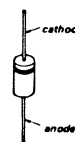
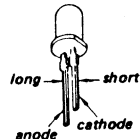
2SD774-3



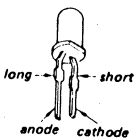
HZS6A1L
HZS7B2L
HZS7C1L
HZS9C1L
HZS12C1L



US1060M
10E2N

**GL-5HY41**

SEL1210S
SEL1410E

**SEL2410E-C**

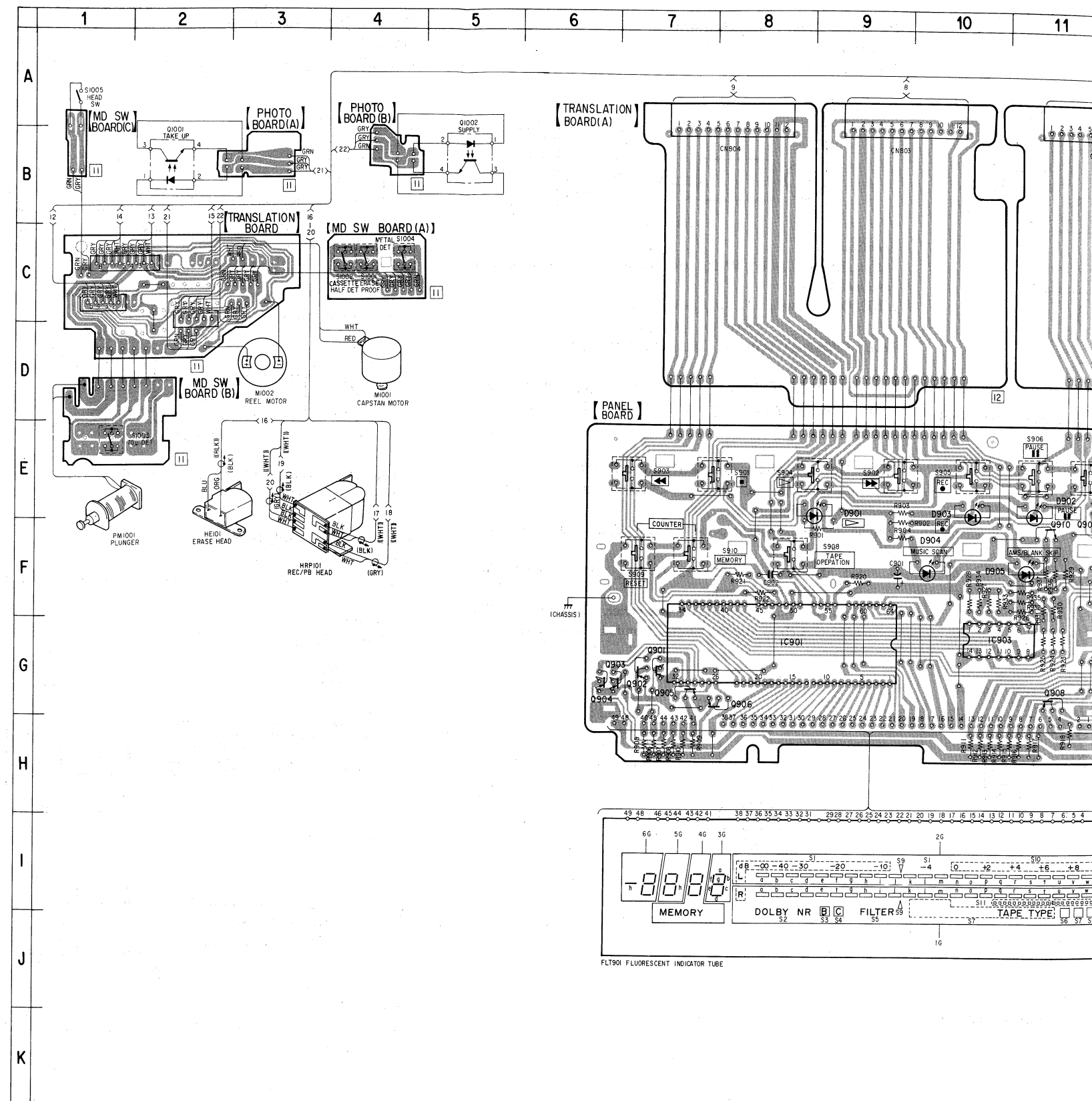
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D301	E-18	D906	E-12	Q654	F-26
D351	F-13	D907	E-12	Q655	F-26
D401	F-18			Q701	C-30
D451	F-13	IC501	C-18	Q702	B-28
D511	H-18	IC502	C-20	Q703	B-29
D512	F-12	IC511	H-19	Q704	B-29
D513	F-12	IC512	H-21	Q705	B-27
D514	F-24	IC513	G-23	Q706	B-27
D515	F-21	IC551	F-20	Q707	B-30
D516	F-21	IC552	E-18	Q708	B-30
D517	F-21	IC553	F-16	Q709	B-30
D701	C-26	IC651	E-26	Q710	B-28
D703	C-30	IC801	G-28	Q751	B-24
D704	C-29	IC802	I-26	Q752	B-24
D705	B-28	IC803	I-29	Q753	B-23
D706	B-29	JC804	H-29	Q754	B-24
D708	C-26	IC851	E-29	Q755	C-23
D709	C-26	IC901	G-8	Q756	C-24
D710	A-29	IC902	F-13	Q757	C-24
D711	C-26	IC903	G-10	Q801	E-28
D714	B-30	IC904	G-32	Q802	F-28
D715	B-26			Q803	E-28
D716	A-26	Q101	B-19	Q804	H-27
D717	B-26	Q151	G-18	Q805	H-28
D718	B-26	Q152	F-22	Q806	H-28
D751	C-23	Q201	D-29	Q807	I-28
D752	B-26	Q251	I-18	Q808	I-28
D753	B-26	Q252	I-22	Q809	I-27
D754	B-26	Q301	E-19	Q810	I-28
D755	B-26	Q401	F-19	Q811	J-28
D801	E-29	Q511	F-22	Q812	I-29
D802	H-25	Q512	F-22	Q851	E-30
D803	E-28	Q513	F-22	Q852	I-28
D804	E-28	Q514	I-22	Q901	G-7
D805	D-28	Q515	F-23	Q902	G-7
D806	C-28	Q516	F-23	Q903	G-6
D807	I-28	Q517	F-24	Q904	G-6
D808	J-28	Q518	G-24	Q905	G-7
D809	F-27	Q518	E-23	Q906	G-8
D851	H-29	Q519	E-23	Q907	G-13
D852	I-29	Q520	E-22	Q908	G-11
D901	E-9	Q521	F-22	Q909	F-12
D902	E-11	Q551	F-20	Q910	F-11
D903	E-10	Q651	E-27	Q1001	B-2
D904	F-10	Q652	E-27	Q1002	B-5
D905	F-11	Q653	E-27		

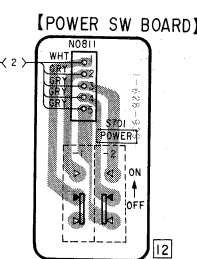
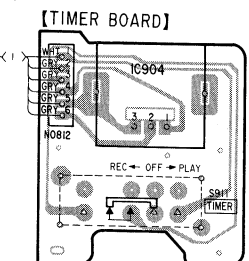
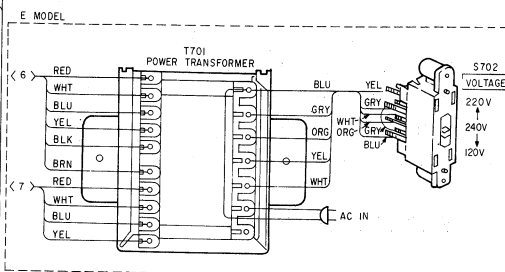
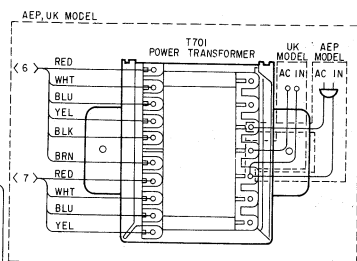
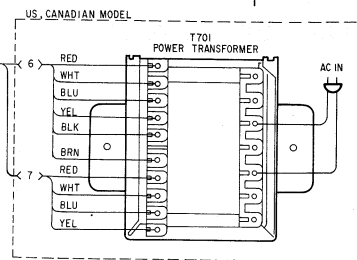
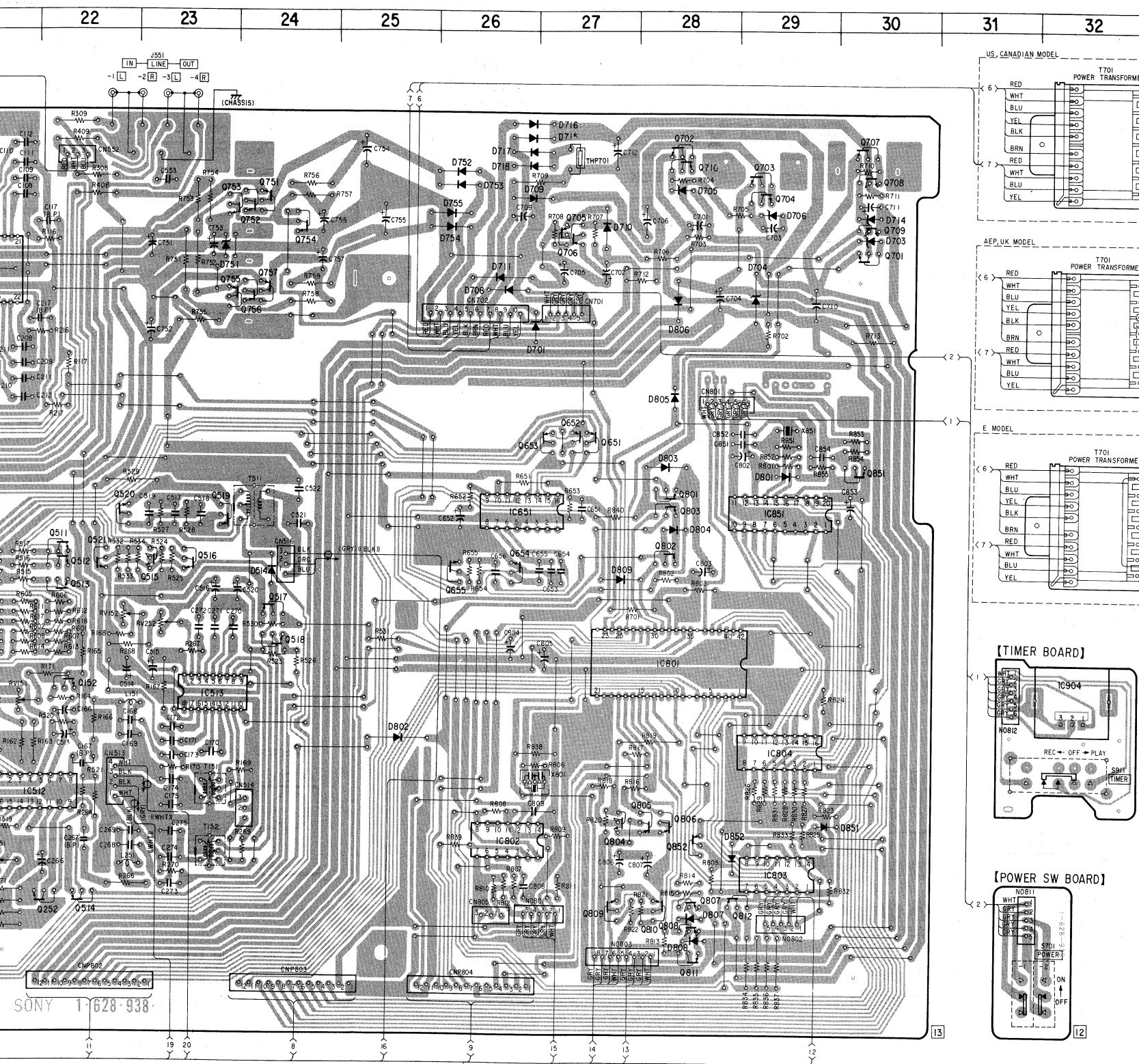
Note on Display Section Schematic Diagram:

- All capacitors are in μF unless otherwise noted. $\text{pF} : \mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- % : indicates tolerance.
- \triangle : internal component.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark: PLAY
- Voltages are taken with a VOM (Input impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.

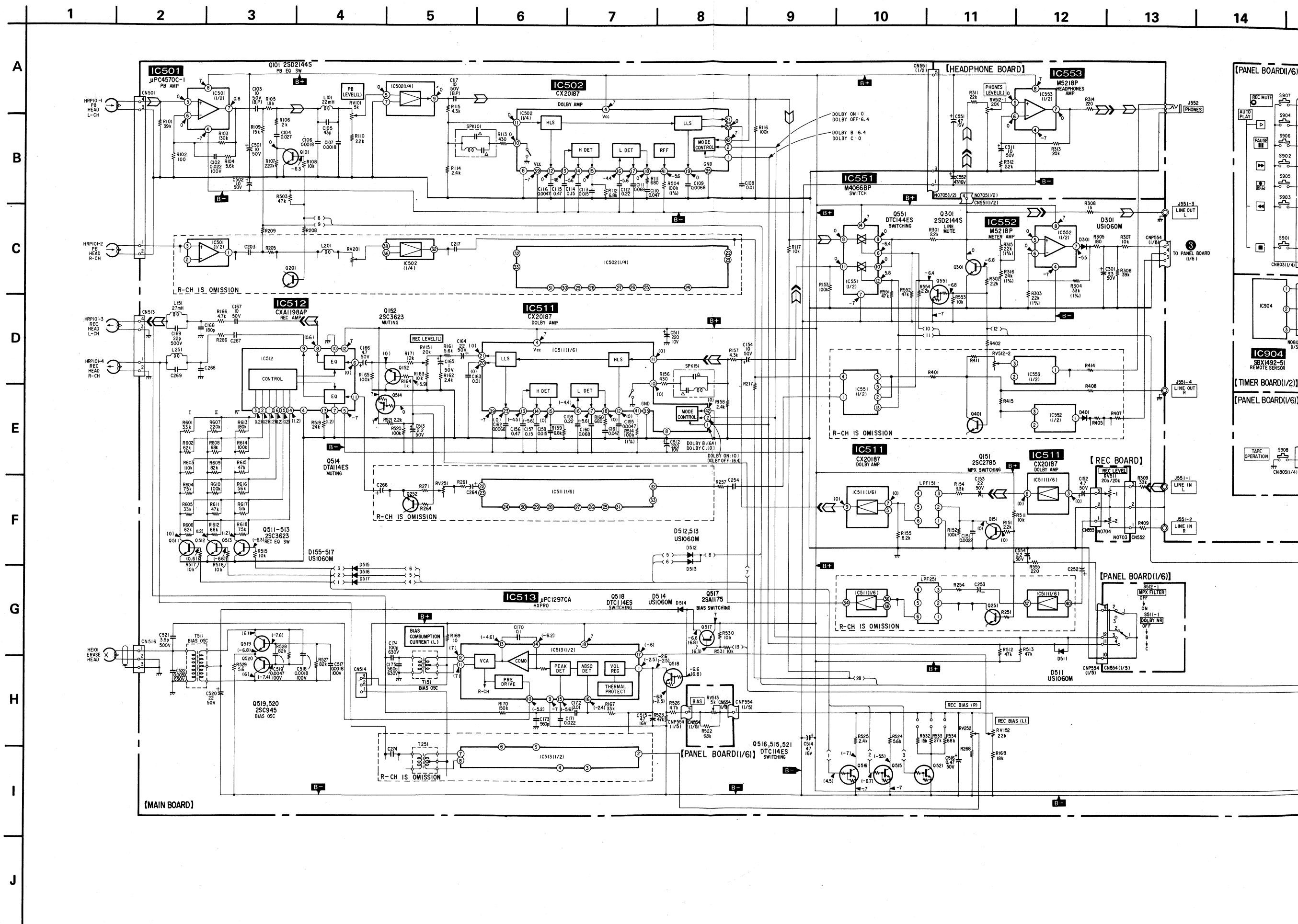
Note on Printed Wiring Boards:

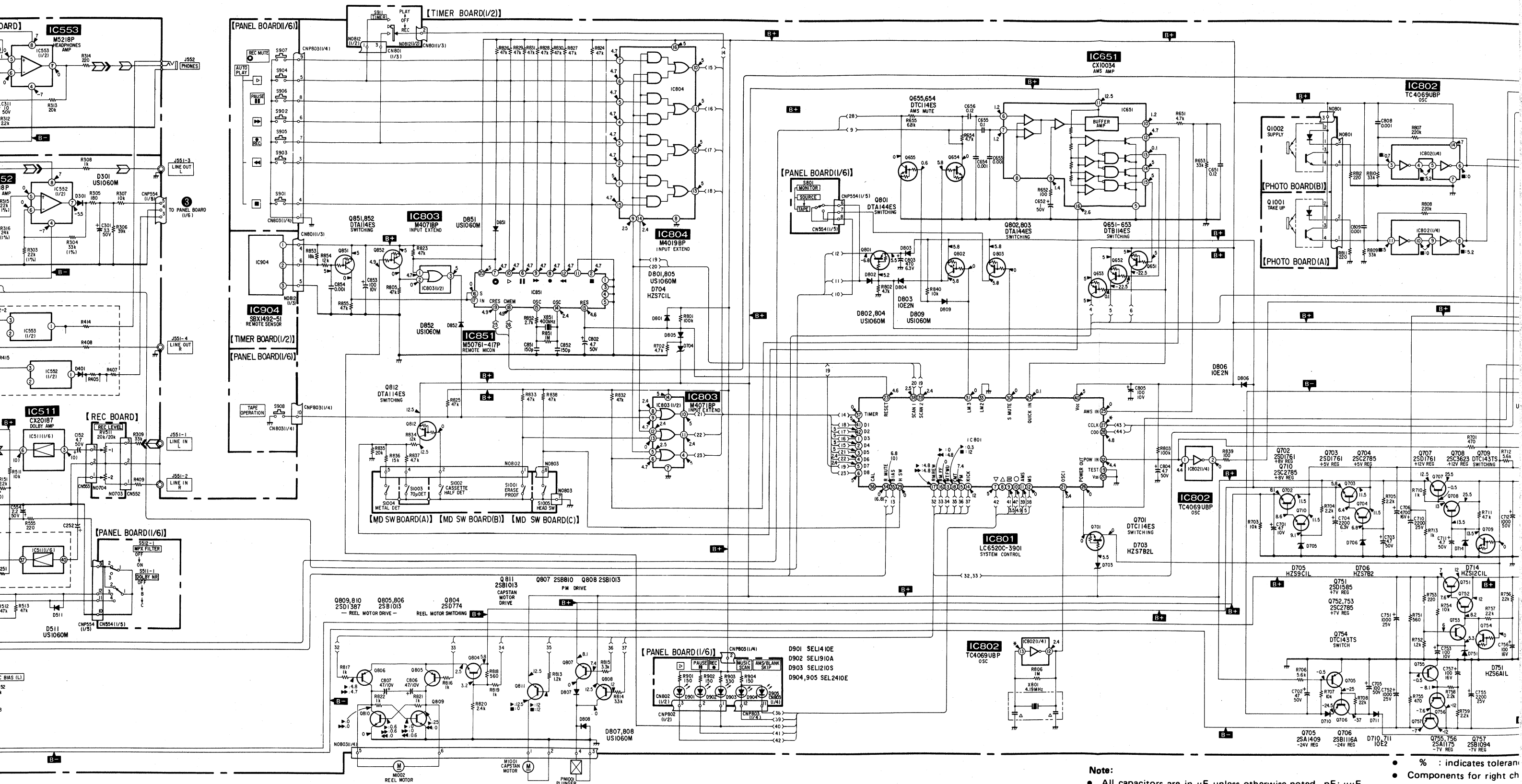
- ○ — : parts extracted from the component side.
- □ → indicates side identified with part number.





4-3. AUDIO/SYSTEM CONTROL SECTION SCHEMATIC DIAGRAM

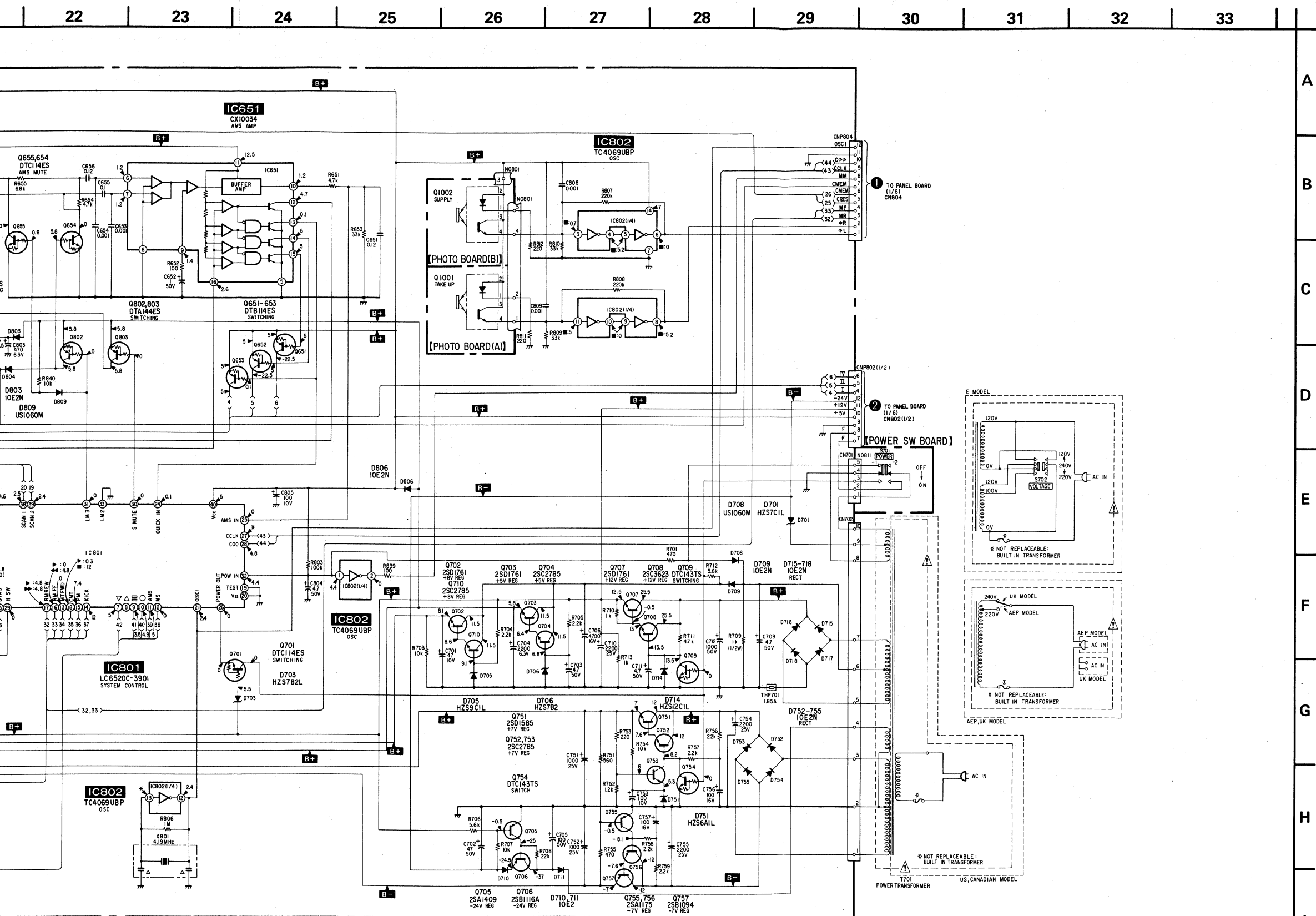




Note:

- All capacitors are in μF unless otherwise noted. $\text{pF} = \mu\text{F} \times 10^{-6}$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.

- % : indicates tolerance
- Components for right channel. Reference number
- \square : internal component
- \triangle : adjustment for reference
- Voltage and waveforms under no-signal condition
- no mark : PLAY
- () : REC



Note:

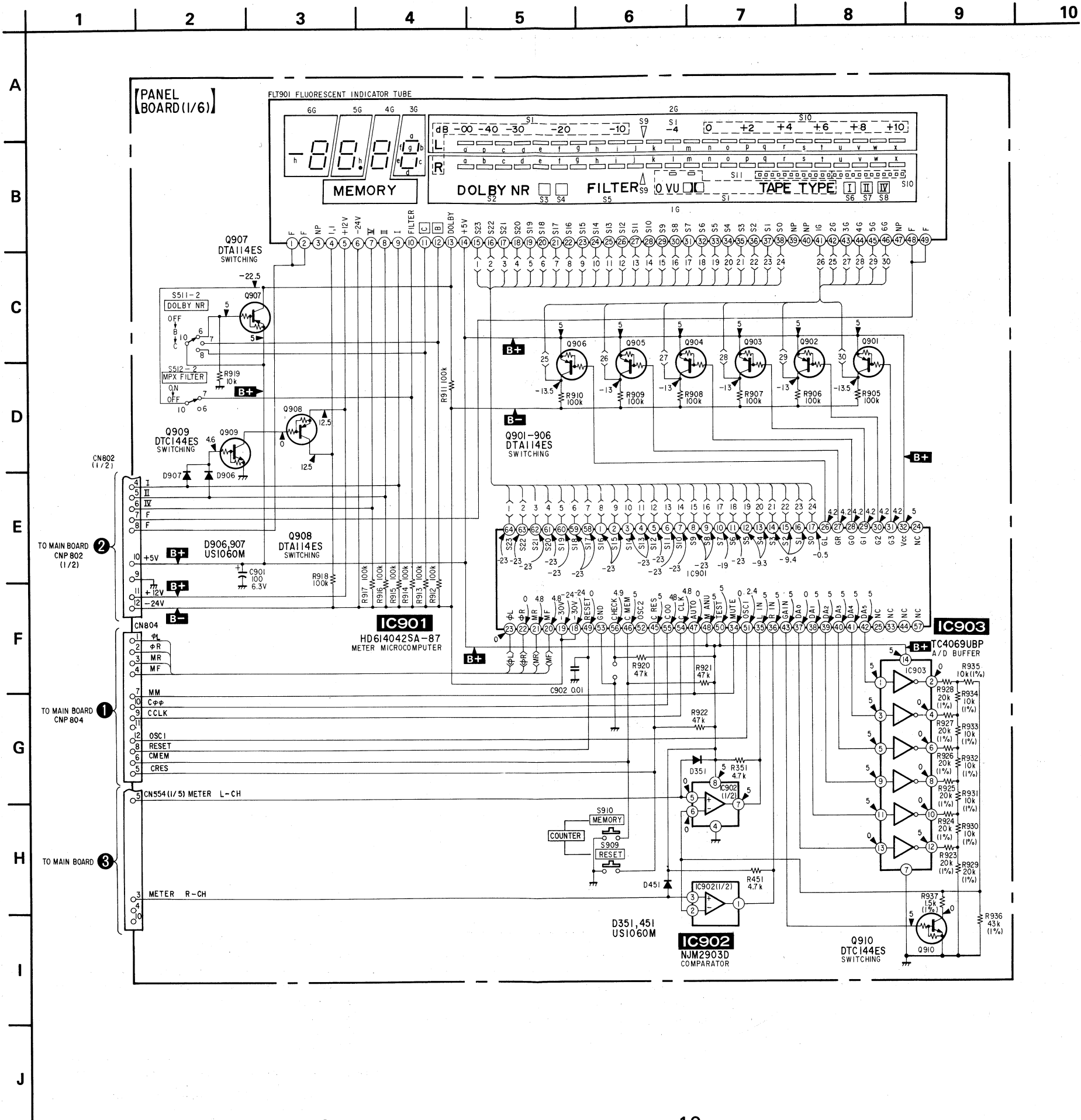
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.

- % : indicates tolerance.
- Components for right channel have same values as for left channel. Reference numbers are coded from 200 and 400.
- \triangle : internal component.
- \square : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- no mark : PLAY
- () : REC

- \blacktriangleright : FWD \blacktriangleleft : REW
- $\blacktriangleright\blacktriangleright$: FF \blacksquare : STOP
- Voltages are taken with a VOM (Input impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Signal path.
- Σ : PB
- $\Sigma\Sigma$: REC

Note: The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

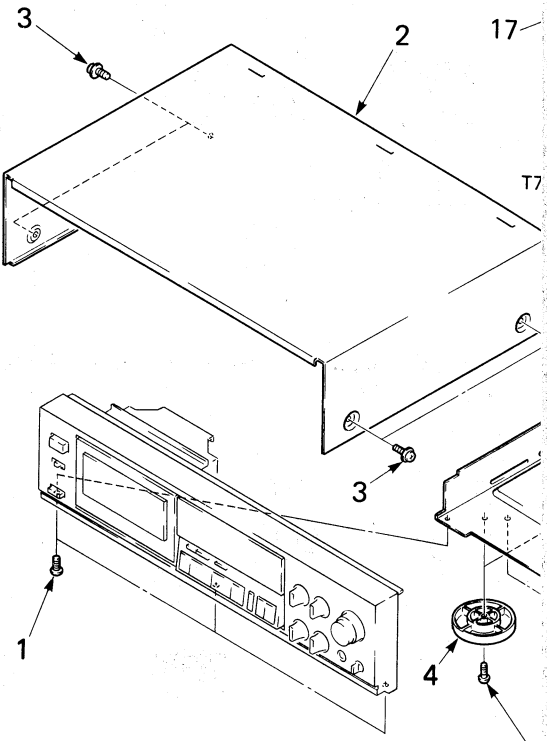
4.4. DISPLAY SECTION SCHEMATIC DIAGRAM • See page 9 for notes.



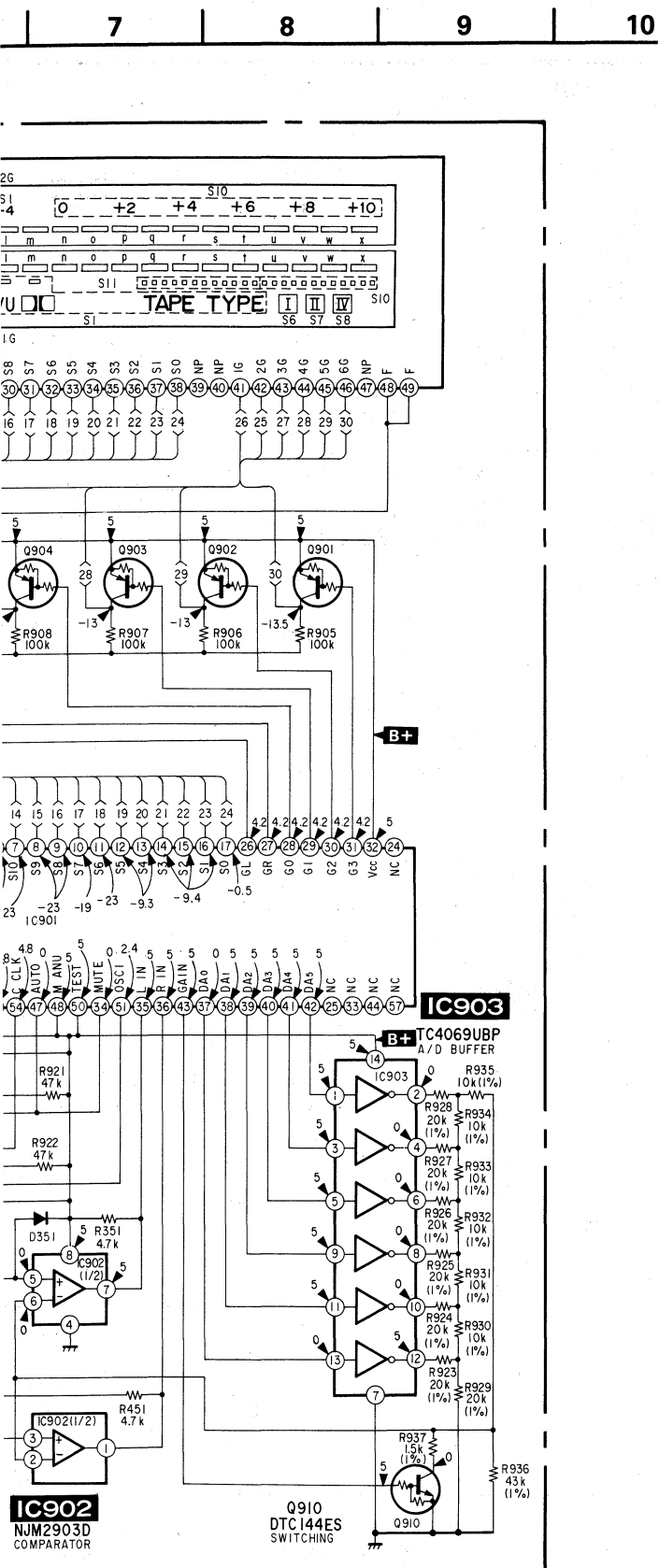
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

(1) CABINET SECTION



No.	Part No.	Description
1	3-703-685-21	SCREW (+BV 3X8)
2	3-350-407-41	CASE
3	3-704-366-01	SCREW (CASE) (M3X8)
4	X-4885-935-1 X-4911-201-1	(K630ES)...FOOT ASSY (K630).....FOOT ASSY
5	7-682-548-04	SCREW +BVTT 3X8 (S)
6	*3-669-610-00	SPACER
7	*3-346-265-11	HOLDER, PC BOARD
8	*4-924-098-11	HOLDER, PC BOARD
9	7-682-547-04	SCREW +BVTT 3X6 (S)
10	*3-309-144-21	HEAT SINK
11	4-870-539-00	PLATE, GROUND
12	*4-363-146-21	HEAT SINK, V.OUT
13	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT
14	*3-350-406-21 *3-350-406-31 *3-350-406-41 *3-350-406-51 *3-350-406-71	(AEP)...PANEL, BACK (US).....PANEL, BACK (UK).....PANEL, BACK (E).....PANEL, BACK (K630)...PANEL, BACK



SECTION 5 EXPLODED VIEWS

NOTE:

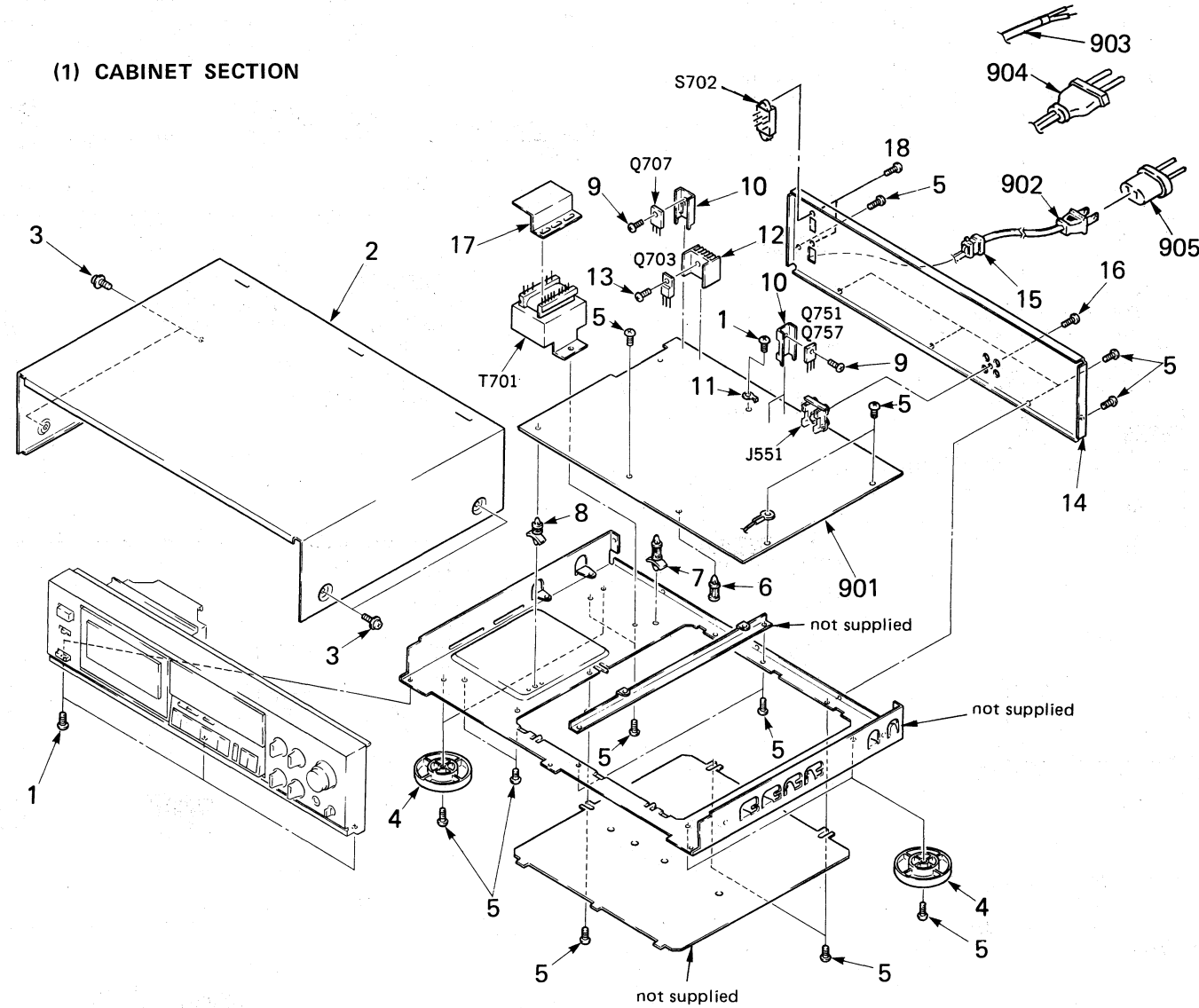
- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
Example:
(RED) ... KNOB, BALANCE (WHITE)
↑ Cabinet's Color ↑ Parts' Color

The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

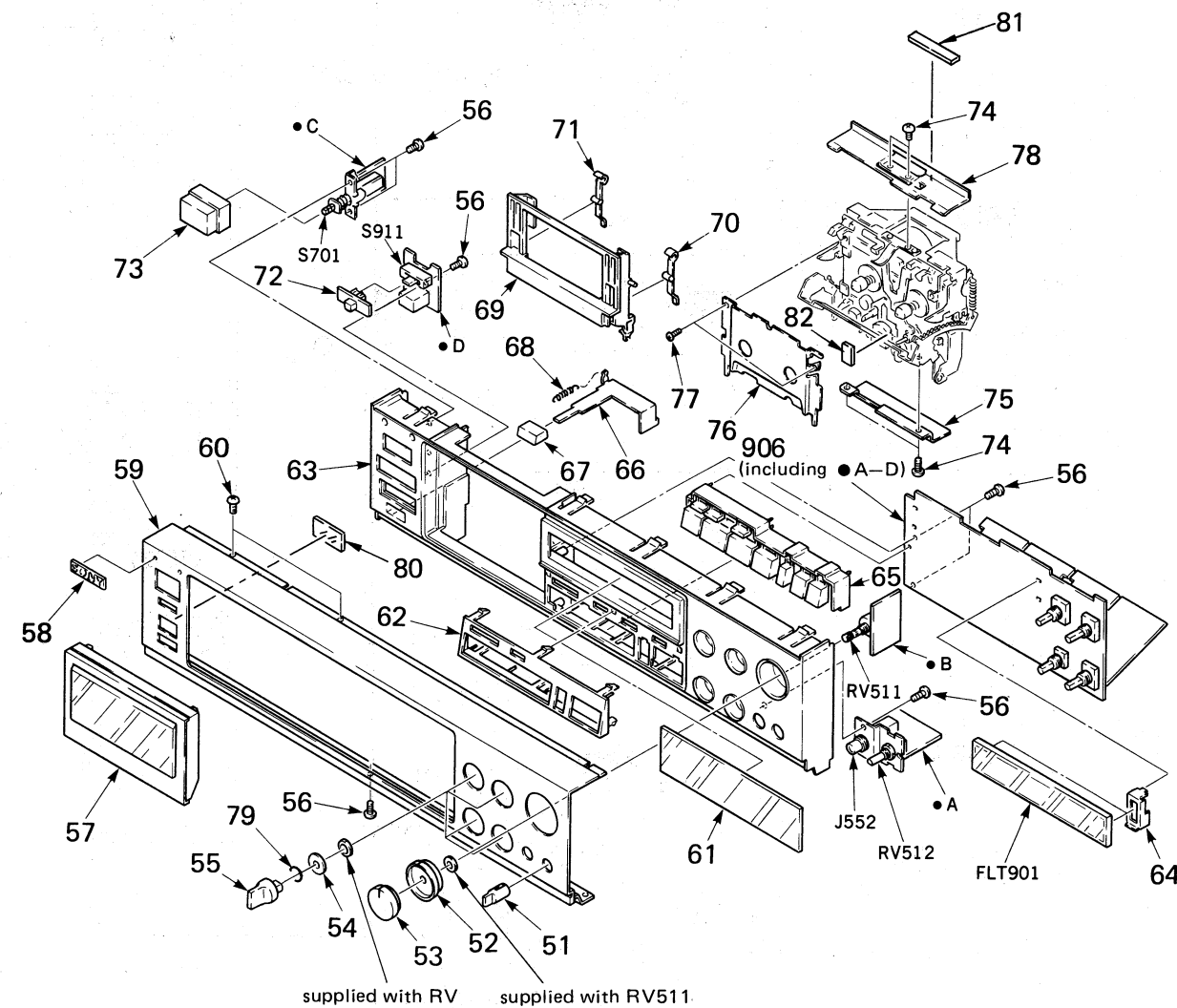
Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(1) CABINET SECTION



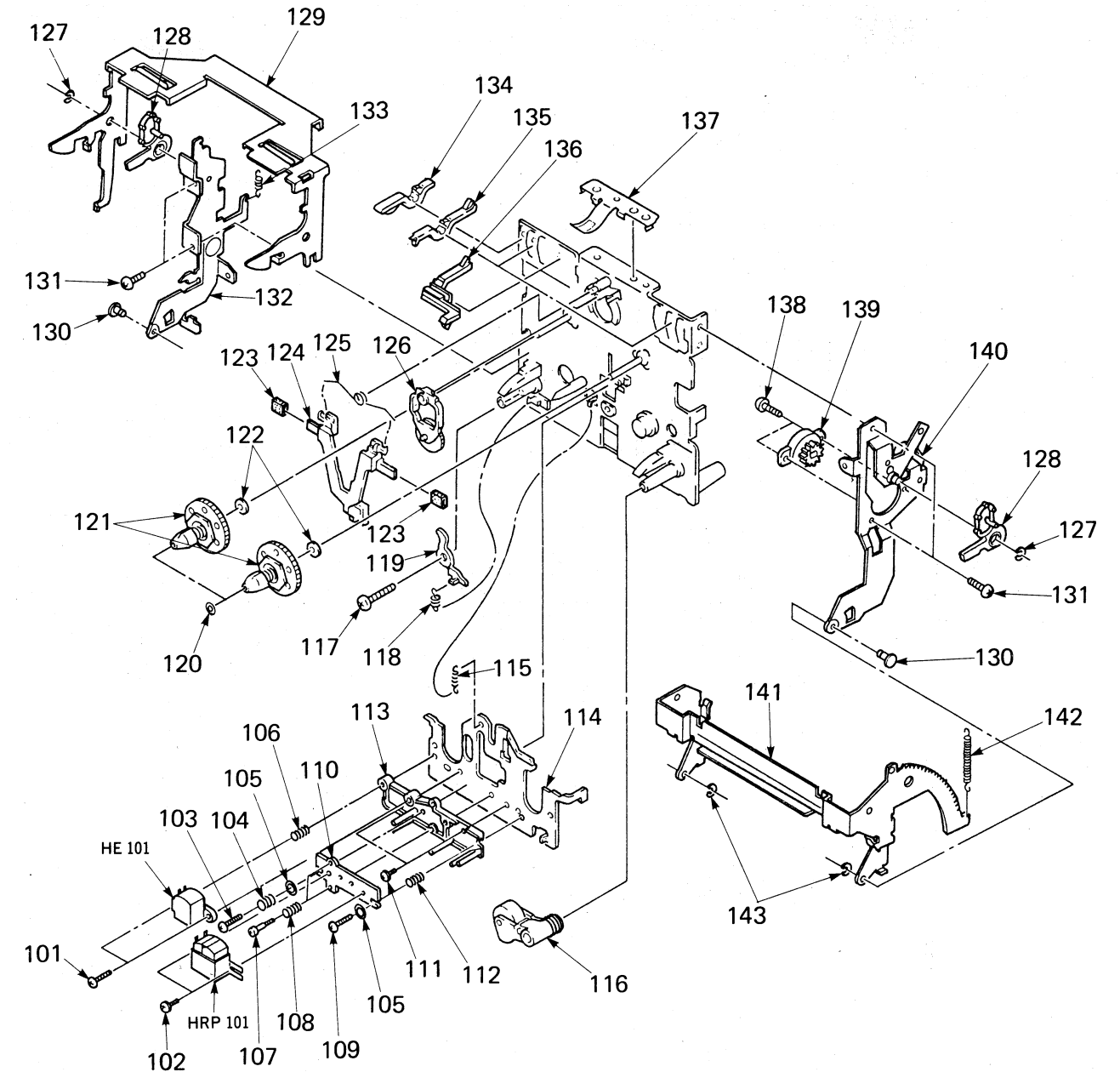
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	3-703-685-21	SCREW (+BV 3X8)		15	*3-703-244-00	(US,AEP,UK,K630)...BUSHING (2104), CORD	
2	3-350-407-41	CASE			*3-703-571-11	(E).....BUSHING (S)(4516), CORD	
3	3-704-366-01	SCREW (CASE) (M3X8)		16	7-621-849-00	SCREW, TAPPING	
4	X-4885-935-1	(K630ES)...FOOT ASSY		17	*3-337-136-01	COVER, TRANSFORMER SAFETY	
	X-4911-201-1	(K630)....FOOT ASSY		18	7-685-646-79	(E)...SCREW +BVTP 3X8 TYPE2 N-S	
5	7-682-548-04	SCREW +BVTT 3X8 (S)		901	*A-2056-440-A	MOUNTED PCB, MAIN	
6	*3-669-610-00	SPACER		902	.1-551-188-XX	(E).....CORD, POWER	
7	*3-346-265-11	HOLDER, PC BOARD			.1-555-465-00	(US,K630)...CORD, POWER	
8	*4-924-098-11	HOLDER, PC BOARD		903	.1-551-884-32	(UK)....CORD, POWER	
9	7-682-547-04	SCREW +BVTT 3X6 (S)		904	.1-555-795-00	(AEP)...CORD, POWER, EULO PLUG	
10	*3-309-144-21	HEAT SINK		905	.1-526-565-00	(E)...AC PLUG ADAPTOR	
11	4-870-539-00	PLATE, GROUND		S702	.1-570-307-11	(E)...SWITCH, VOLTAGE CHANGE	
12	*4-363-146-21	HEAT SINK, V.OUT		T701	.1-449-484-11	(AEP,UK)....TRANSFORMER, POWER	
13	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3		T701	.1-449-575-11	(E).....TRANSFORMER, POWER	
14	*3-350-406-21	(AEP)....PANEL, BACK		T701	.1-449-576-11	(US,K630)...TRANSFORMER, POWER	
	*3-350-406-31	(US)....PANEL, BACK					
	*3-350-406-41	(UK)....PANEL, BACK					
	*3-350-406-51	(E)....PANEL, BACK					
	*3-350-406-71	(K630)...PANEL, BACK					

(2) FRONT PANEL SECTION



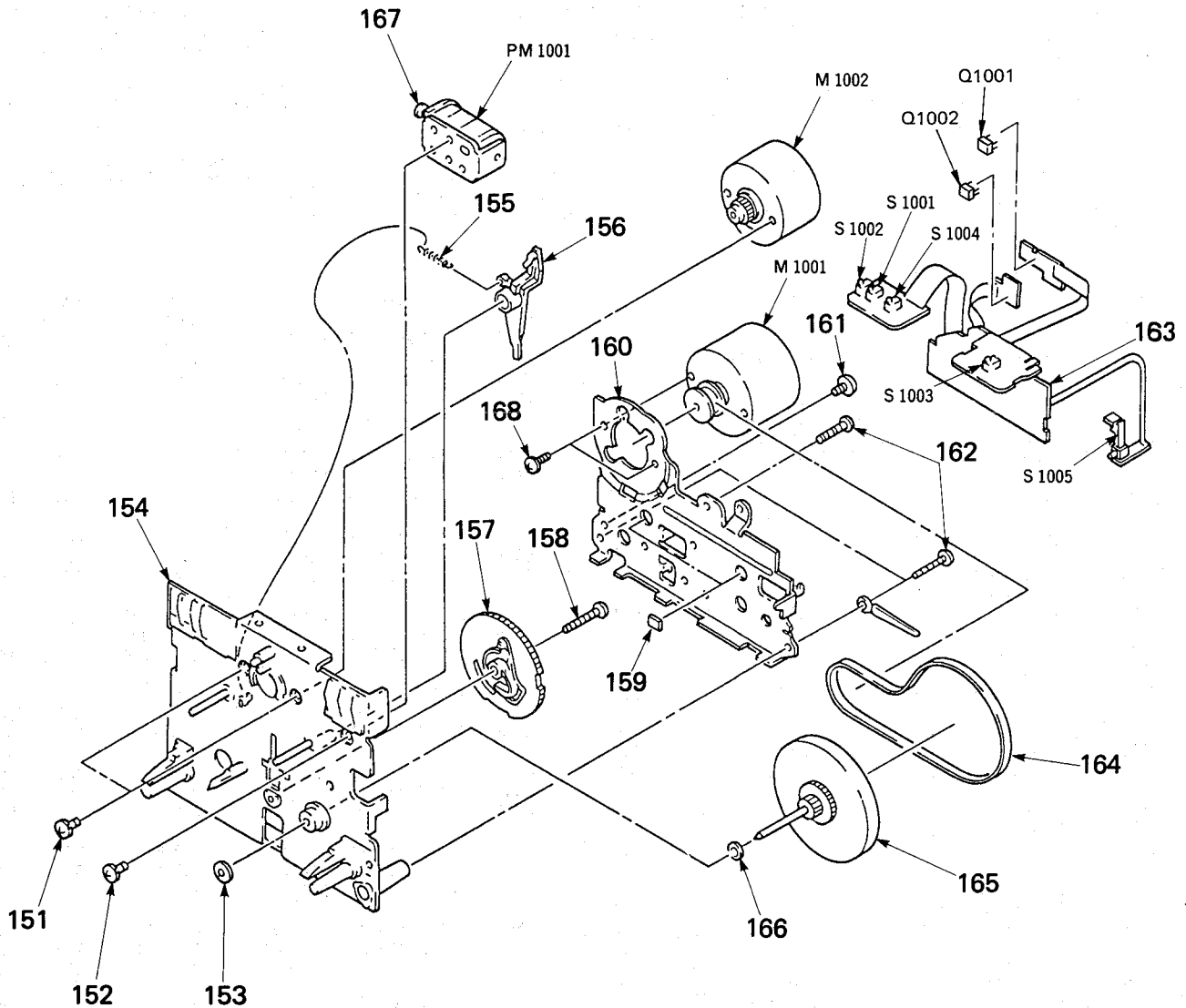
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	4-921-921-11	KNOB (M)		65	X-3304-939-1	BUTTON ASSY	
52	3-332-589-01	KNOB (REC VOL-LEFT)		66	*3-332-564-01	SLIDER (EJC)	
53	3-332-590-01	KNOB (REC VOL-RIGHT)		67	3-343-698-11	BUTTON (EJECT)	
54	3-350-416-01	SPACER		68	3-571-829-00	SPRING, TENSION	
55	4-908-097-21	KNOB		69	X-3332-448-1	HOLDER ASSY, CASSETTE	
56	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S		70	3-307-372-00	SPRING (RIGHT)	
57	A-2169-137-A	LID ASSY, CASSETTE		71	3-307-371-00	SPRING (LEFT)	
58	4-908-848-01	(K630ES)...EMBLEM, SONY		72	3-307-538-21	KNOB, SWITCH, TIMER	
	4-925-334-11	(K630).....EMBLEM (5-A), SONY		73	4-917-460-01	KNOB, POWER	
59	3-350-404-31	(US).....PANEL, FRONT		74	7-682-547-04	SCREW +BVTT 3X6 (S)	
	3-350-404-41	(AEP,UK)....PANEL, FRONT		75	*3-332-560-01	BRACKET (MDB)	
	3-350-404-51	(E).....PANEL, FRONT		76	*3-332-547-01	PLATE, ORNAMENTAL	
	3-350-404-81	(K630).....PANEL, FRONT		77	7-621-772-00	SCREW +B 2X3	
				78	*3-332-561-01	BRACKET (MDU)	
60	7-685-873-01	SCREW +BVTT 3X8 (S)		79	3-350-426-01	SPRING	
61	3-318-698-01	WINDOW (M)		80	3-712-704-11	PLATE (SMALL), TRANSPARENT	
62	X-3304-941-1	PLATE (B) ASSY, ORNAMENTAL		81	*4-913-199-01	CUSHION (D), CHASSIS	
63	3-350-405-01	PANEL (BASE)		82	*4-917-633-01	DAMPER (B)	
64	*3-318-695-01	HOLDER (FL)		906	*A-2056-441-A	MOUNTED PCB, PANEL	

(3) MECHANISM SECTION (1) (TCM-CMAY B-27)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
101	7-621-955-75	SCREW, TOTSU PMH 2X12		124	3-392-723-01	LEVER (B), HOLD	
102	7-621-255-15	SCREW +P 2X3		125	3-391-124-01	SPRING	
103	3-392-718-01	SCREW (M2X12) (SPECIAL), BIND		126	X-3391-111-1	IDLER ASSY	
104	3-392-716-01	SPRING (LEFT)		127	7-624-105-04	STOP RING 2.3, TYPE -E	
105	7-688-001-01	W 2, SMALL		128	3-391-185-01	LEVER, STOP	
106	3-391-101-01	SPRING		129	*3-391-180-01	ARM, EJECT	
107	3-392-719-01	SCREW, TILT		130	3-391-183-01	SHAFT (B), *HOLDER FULCRUM	
108	3-392-715-01	SPRING		131	7-621-773-86	SCREW +PTT 2.6X4 (S)	
109	7-621-255-55	SCREW +P 2X8		132	*X-3391-152-1	ARM ASSY, EJECT	
110	*3-392-714-01	SPACER, 3 HEAD		133	3-391-181-01	SP, LEVER RETURN	
111	3-392-734-01	SCREW (2.0X3) (ZNT), O PAN		134	3-392-725-01	LEVER	
112	3-392-717-01	SPRING (RIGHT)		135	3-392-724-01	LEVER	
113	*3-392-713-01	PLATE, BASE, HEAD		136	3-392-726-01	LEVER	
114	*3-392-712-01	BASE, HEAD		137	3-391-177-01	SPRING	
115	3-391-114-01	SPRING		138	7-621-255-15	SCREW +PTT 2X3 (S)	
116	3-392-731-01	PINCH ROLLER (R) ASSY		139	X-3391-151-1	DAMPER ASSY	
117	3-392-733-01	SCREW		140	*3-392-722-01	PLATE HOLD BLK	
118	3-391-123-01	SPRING (A)		141	*3-391-182-01	HOLDER, CASSETTE	
119	3-391-105-01	ARM (B), EJECT SAFETY		142	3-391-184-01	SPRING	
120	3-701-436-11	WASHER, 1.6 POLYETHYLENE		143	7-624-102-04	STOP RING 1.5, TYPE -E	
121	X-3391-107-1	REEL ASSY, T.U		HE101	1-543-375-11	HEAD, ERASE (EF-701-36)	
122	3-392-711-01	WASHER (2.1X0.25) (T)		HRP101	1-543-593-11	HEAD, MAGNETIC (REC/PB)	
123	3-392-728-01	RUBBER, BRAKE					

(4) MECHANISM SECTION (2)
(TCM-CMAY B-27)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
151	7-621-770-67	SCREW +P 2.6X6		165	X-3391-133-1	ASSY F/W	
152	7-621-759-25	+PSW, 2.6X4		166	3-701-438-11	WASHER, 2.5	
153	3-391-119-01	SEAL, WASHER OIL		167	*3-392-707-01	SOLENOID (ARBOR)	
154	3-392-710-01	CHASSIS BASE BLK		168	7-628-253-90	SCREW +PS 2.6X4	
155	3-392-730-01	SP, PLAY ARM		M1001	X-3391-130-1	MOTOR ASSY	
156	3-392-727-01	ARM, PLAY		M1002	3-392-709-01	MTR REEL BLK	
157	3-391-197-01	GEAR (I), CAM		PM1001	1-454-440-21	SOLENOID, PLUNGER	
158	3-392-732-01	SCREW (2X15), TT, WASHER		Q1001	1-807-509-11	PHOTO SENSOR (HEAD SW)	
159	3-391-129-01	SPACER		Q1002	1-807-509-11	PHOTO SENSOR (HEAD SW)	
160	*3-392-720-01	F/W BKT		S1001	1-571-081-11	SWITCH (ERASE PROOF)	
161	7-682-546-04	SCREW +PTT 3X5 (S)		S1002	1-571-081-11	SWITCH (CASSETTE HALF DET)	
162	7-685-131-19	SCREW +P 2.6X4 TYPE2 NON-SLIT		S1003	1-571-081-11	SWITCH (70u DET)	
163	*3-392-721-01	PCB CONTROL BLK		S1004	1-571-081-11	SWITCH (METAL DET)	
164	3-392-729-01	BELT, MAIN		S1005	1-571-820-11	SWITCH, LEAF	

SECTION 6

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:MF: μ F, PF: μ F.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORSIn each case, U: μ , for example:UA....: μ A...., UPA....: μ PA....,UPC....: μ PC, UPD....: μ PD....

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
901	*A-2056-440-A	MOUNTED PCB, MAIN	C174	1-136-433-11	FILM 100PF 5% 630V
902	Δ 1-551-188-XX	(E).....CORD, POWER	C175	1-136-803-11	FILM 560PF 5% 630V
	Δ 1-555-465-00	(US,K630)...CORD, POWER	C301	1-123-382-00	ELECT 3.3MF 20% 50V
903	Δ 1-551-884-32	(UK)....CORD, POWER	C311	1-123-875-11	ELECT 10MF 20% 50V
904	Δ 1-555-795-00	(AEP)...CORD, POWER, EULO PLUG	C501	1-123-875-11	ELECT 10MF 20% 50V
905	Δ 1-526-565-00	(E)...AC PLUG ADAPTOR	C502	1-123-875-11	ELECT 10MF 20% 50V
906	*A-2056-441-A	MOUNTED PCB, PANEL	C511	1-126-176-11	ELECT 220MF 20% 10V
C102	1-130-973-00	FILM 0.022MF 5% 100V	C512	1-126-176-11	ELECT 220MF 20% 10V
C103	1-124-657-00	ELECT 10MF 20% 50V	C513	1-124-925-11	ELECT 2.2MF 20% 50V
C104	1-130-488-00	MYLAR 0.027MF 5% 50V	C514	1-124-477-11	ELECT 47MF 20% 16V
C105	1-102-966-00	CERAMIC 43PF 5% 50V	C515	1-124-477-11	ELECT 47MF 20% 16V
C106	1-130-474-00	MYLAR 0.0018MF 5% 50V	C516	1-124-902-00	ELECT 0.47MF 20% 50V
C107	1-130-474-00	MYLAR 0.0018MF 5% 50V	C517	1-136-253-11	FILM 0.0018MF 5% 100V
C108	1-136-153-00	FILM 0.01MF 5% 50V	C518	1-136-253-11	FILM 0.0018MF 5% 100V
C109	1-130-481-00	MYLAR 0.0068MF 5% 50V	C519	1-136-233-11	FILM 0.0047MF 5% 100V
C110	1-136-161-00	FILM 0.047MF 5% 50V	C520	1-126-233-11	ELECT 22MF 20% 50V
C111	1-136-163-00	FILM 0.068MF 5% 50V	C521	1-107-045-00	MICA 3.9PF 0.5PF 500V
C112	1-136-169-00	FILM 0.22MF 5% 50V	C522	1-136-558-11	FILM 0.0039MF 5% 630V
C113	1-136-155-00	FILM 0.015MF 5% 50V	C551	1-124-477-11	ELECT 47MF 20% 16V
C114	1-136-167-00	FILM 0.15MF 5% 50V	C552	1-124-477-11	ELECT 47MF 20% 16V
C115	1-136-173-00	FILM 0.47MF 5% 50V	C553	1-130-487-00	MYLAR 0.022MF 5% 50V
C116	1-130-479-00	MYLAR 0.0047MF 5% 50V	C554	1-124-925-11	ELECT 2.2MF 20% 50V
C117	1-124-657-00	ELECT 10MF 20% 50V	C651	1-136-166-00	FILM 0.12MF 5% 50V
C151	1-130-475-00	MYLAR 0.0022MF 5% 50V	C652	1-124-499-11	ELECT 1MF 20% 50V
C152	1-124-927-11	ELECT 4.7MF 20% 50V	C653	1-162-294-31	CERAMIC 0.001MF 10% 50V
C153	1-126-233-11	ELECT 22MF 20% 50V	C654	1-162-294-31	CERAMIC 0.001MF 10% 50V
C154	1-124-657-00	ELECT 10MF 20% 50V	C655	1-136-165-00	FILM 0.1MF 5% 50V
C155	1-130-479-00	MYLAR 0.0047MF 5% 50V	C656	1-136-166-00	FILM 0.12MF 5% 50V
C156	1-136-173-00	FILM 0.47MF 5% 50V	C701	1-124-446-11	ELECT 47MF 20% 10V
C157	1-136-167-00	FILM 0.15MF 5% 50V	C702	1-124-910-11	ELECT 47MF 20% 50V
C158	1-136-155-00	FILM 0.015MF 5% 50V	C703	1-124-927-11	ELECT 4.7MF 20% 50V
C159	1-136-169-00	FILM 0.22MF 5% 50V	C704	1-124-893-11	ELECT 2200MF 20% 6.3V
C160	1-136-163-00	FILM 0.068MF 5% 50V	C705	1-124-122-11	ELECT 100MF 20% 50V
C161	1-136-161-00	FILM 0.047MF 5% 50V	C706	1-124-898-11	ELECT 4700MF 20% 16V
C162	1-130-481-00	MYLAR 0.0068MF 5% 50V	C709	1-124-927-11	ELECT 4.7MF 20% 50V
C163	1-136-153-00	FILM 0.01MF 5% 50V	C710	1-124-563-11	ELECT 2200MF 20% 25V
C164	1-126-233-11	ELECT 22MF 20% 50V	C711	1-124-927-11	ELECT 4.7MF 20% 50V
C165	1-124-499-11	ELECT 1MF 20% 50V	C712	1-124-637-11	ELECT 1000MF 20% 50V
C166	1-124-927-11	ELECT 4.7MF 20% 50V	C751	1-124-557-11	ELECT 1000MF 20% 25V
C167	1-124-657-00	ELECT 10MF 20% 50V	C752	1-124-557-11	ELECT 1000MF 20% 25V
C168	1-162-285-31	CERAMIC 180PF 10% 50V	C753	1-124-443-00	ELECT 100MF 20% 10V
C169	1-107-210-00	MICA 22PF 5% 500V	C754	1-124-563-11	ELECT 2200MF 20% 25V
C170	1-136-165-00	FILM 0.1MF 5% 50V	C755	1-124-563-11	ELECT 2200MF 20% 25V
C171	1-136-157-00	FILM 0.022MF 5% 50V	C756	1-126-101-11	ELECT 100MF 20% 16V
C172	1-136-153-00	FILM 0.01MF 5% 50V	C757	1-126-101-11	ELECT 100MF 20% 16V
C173	1-130-468-00	MYLAR 560PF 5% 50V			

Ref.No.	Part No.	Description					Ref.No.	Part No.	Description
C802	1-124-927-11	ELECT	4.7MF	20%	50V		D718	8-719-200-77	DIODE 10E2N
C803	1-124-472-11	ELECT	470MF	20%	6.3V		D751	8-719-933-33	DIODE HZS6A1L
C804	1-124-927-11	ELECT	4.7MF	20%	50V		D752	8-719-200-77	DIODE 10E2N
C805	1-124-443-00	ELECT	100MF	20%	10V		D753	8-719-200-77	DIODE 10E2N
C806	1-124-446-11	ELECT	47MF	20%	10V		D754	8-719-200-77	DIODE 10E2N
C807	1-124-446-11	ELECT	47MF	20%	10V		D755	8-719-200-77	DIODE 10E2N
C808	1-162-294-31	CERAMIC	0.001MF	10%	50V		D801	8-719-000-26	DIODE US1060M
C809	1-162-294-31	CERAMIC	0.001MF	10%	50V		D802	8-719-000-26	DIODE US1060M
C851	1-162-284-31	CERAMIC	150PF	10%	50V		D803	8-719-200-77	DIODE 10E2N
C852	1-162-284-31	CERAMIC	150PF	10%	50V		D804	8-719-000-26	DIODE US1060M
C853	1-124-443-00	ELECT	100MF	20%	10V		D805	8-719-000-26	DIODE US1060M
C854	1-162-294-31	CERAMIC	0.001MF	10%	50V		D806	8-719-200-77	DIODE 10E2N
C901	1-126-177-11	ELECT	100MF	20%	6.3V		D807	8-719-000-26	DIODE US1060M
C902	1-161-379-00	CERAMIC	0.01MF	30%	16V		D808	8-719-000-26	DIODE US1060M
CN501	*1-564-507-11	PLUG, CONNECTOR 4P					D809	8-719-000-26	DIODE US1060M
CN513	*1-564-507-11	PLUG, CONNECTOR 4P					D851	8-719-000-26	DIODE US1060M
CN514	*1-564-506-11	PLUG, CONNECTOR 3P					D852	8-719-000-26	DIODE US1060M
CN516	*1-564-506-11	PLUG, CONNECTOR 3P					D901	8-719-302-52	DIODE SEL1410E
CN551	*1-564-508-11	PLUG, CONNECTOR 5P					D902	8-719-941-46	DIODE GL-5HY41
CN552	*1-564-506-11	PLUG, CONNECTOR 3P					D903	8-719-302-45	DIODE SEL1210S
CN553	*1-564-506-11	PLUG, CONNECTOR 3P					D904	8-719-301-43	DIODE SEL2410E-C
CN554	*1-566-827-11	SOCKET, CONNECTOR 12P					D905	8-719-301-43	DIODE SEL2410E-C
CN701	*1-564-339-00	PIN, CONNECTOR 5P					D906	8-719-000-26	DIODE US1060M
CN702	*1-564-513-11	PLUG, CONNECTOR 10P					D907	8-719-000-26	DIODE US1060M
CN801	*1-564-340-00	PIN, CONNECTOR 6P					FLT901	1-519-491-11	INDICATOR TUBE, FLUORESCENT
CN802	*1-566-827-11	SOCKET, CONNECTOR 12P					HE101	1-543-375-11	HEAD, ERASE (EF-701-36)
CN803	*1-566-827-11	SOCKET, CONNECTOR 12P					HRP101	1-543-593-11	HEAD, MAGNETIC (REC/PB)
CN804	*1-566-827-11	SOCKET, CONNECTOR 12P					IC501	8-759-111-44	IC UPC4570C-1
CN805	*1-564-506-11	PLUG, CONNECTOR 3P					IC502	8-752-018-70	IC CX20187
CNP554	*1-566-826-11	PLUG, CONNECTOR 12P					IC511	8-752-018-70	IC CX20187
CNP802	*1-566-826-11	PLUG, CONNECTOR 12P					IC512	8-752-033-61	IC CXA1198AP
CNP803	*1-566-826-11	PLUG, CONNECTOR 12P					IC513	8-759-106-56	IC UPC1297CA
CNP804	*1-566-826-11	PLUG, CONNECTOR 12P					IC551	8-759-601-43	IC M4066BP
D301	8-719-000-26	DIODE US1060M					IC552	8-759-945-58	IC RC4558P
D351	8-719-000-26	DIODE US1060M					IC553	8-759-601-02	IC M5218P
D401	8-719-000-26	DIODE US1060M					IC651	8-759-700-46	IC CX10034
D451	8-719-000-26	DIODE US1060M					IC801	8-759-821-29	IC LC6520C-3901
D511	8-719-000-26	DIODE US1060M					IC802	8-759-240-69	IC TC4069UBP
D512	8-719-000-26	DIODE US1060M					IC803	8-759-240-71	IC TC4071BP
D513	8-719-000-26	DIODE US1060M					IC804	8-759-601-19	IC M4019BP
D514	8-719-000-26	DIODE US1060M					IC851	8-759-604-07	IC M50761-423P
D515	8-719-000-26	DIODE US1060M					IC901	8-759-302-98	IC HD614042SA87
D516	8-719-000-26	DIODE US1060M					IC902	8-759-928-03	IC NJM2903D
D517	8-719-000-26	DIODE US1060M					IC903	8-759-240-69	IC TC4069UBP
D701	8-719-933-49	DIODE HZS7C1L					IC904	8-749-901-49	IC SBX1492-51
D703	8-719-933-47	DIODE HZS7B2L					J551	1-565-258-11	JACK, PIN 4P (LINE IN/OUT)
D704	8-719-933-49	DIODE HZS7C1L					J552	1-507-796-71	JACK (PHONES)
D705	8-719-933-59	DIODE HZS9C1L					L101	1-410-779-21	INDUCTOR 22MMH
D706	8-719-933-47	DIODE HZS7B2L					L151	1-410-780-11	INDUCTOR 27MMH
D708	8-719-000-26	DIODE US1060M					L201	1-410-779-21	INDUCTOR 22MMH
D709	8-719-200-77	DIODE 10E2N					L251	1-410-780-11	INDUCTOR 27MMH
D710	8-719-200-77	DIODE 10E2N					LPF151	1-235-980-11	FILTER, LOW PASS
D711	8-719-200-77	DIODE 10E2N					LPF251	1-235-980-11	FILTER, LOW PASS
D714	8-719-933-79	DIODE HZS12C1L					M1001	X-3391-130-1	MOTOR ASSY
D715	8-719-200-77	DIODE 10E2N					M1002	3-392-709-01	MTR REEL BLK
D716	8-719-200-77	DIODE 10E2N							
D717	8-719-200-77	DIODE 10E2N							

TC-K630/K630ES

Ref.No.	Part No.	Description
PM1001	1-454-440-21	SOLENOID, PLUNGER
Q101	8-729-922-37	TRANSISTOR 2SD2144S
Q151	8-729-119-78	TRANSISTOR 2SC2785
Q152	8-729-107-77	TRANSISTOR 2SC3623-L
Q201	8-729-922-37	TRANSISTOR 2SD2144S
Q251	8-729-119-78	TRANSISTOR 2SC2785
Q252	8-729-107-77	TRANSISTOR 2SC3623-L
Q301	8-729-922-37	TRANSISTOR 2SD2144S
Q401	8-729-922-37	TRANSISTOR 2SD2144S
Q511	8-729-107-77	TRANSISTOR 2SC3623-L
Q512	8-729-107-77	TRANSISTOR 2SC3623-L
Q513	8-729-107-77	TRANSISTOR 2SC3623-L
Q514	8-729-900-61	TRANSISTOR DTA114ES
Q515	8-729-900-80	TRANSISTOR DTC114ES
Q516	8-729-900-80	TRANSISTOR DTC114ES
Q517	8-729-173-38	TRANSISTOR 2SA733
Q518	8-729-900-80	TRANSISTOR DTC114ES
Q519	8-729-119-78	TRANSISTOR 2SC2785
Q520	8-729-119-78	TRANSISTOR 2SC2785
Q521	8-729-900-80	TRANSISTOR DTC114ES
Q551	8-729-900-89	TRANSISTOR DTC144ES
Q651	8-729-920-26	TRANSISTOR DTB114ES
Q652	8-729-920-26	TRANSISTOR DTB114ES
Q653	8-729-920-26	TRANSISTOR DTB114ES
Q654	8-729-900-80	TRANSISTOR DTC114ES
Q655	8-729-900-80	TRANSISTOR DTC114ES
Q701	8-729-900-80	TRANSISTOR DTC114ES
Q702	8-729-904-27	TRANSISTOR 2SD1761-E
Q703	8-729-904-27	TRANSISTOR 2SD1761-E
Q704	8-729-119-78	TRANSISTOR 2SC2785
Q705	8-729-110-33	TRANSISTOR 2SA1409-L
Q706	8-729-364-72	TRANSISTOR 2SB647
Q707	8-729-904-27	TRANSISTOR 2SD1761-E
Q708	8-729-107-77	TRANSISTOR 2SC3623-L
Q709	8-729-900-74	TRANSISTOR DTC143TS
Q710	8-729-119-78	TRANSISTOR 2SC2785
Q751	8-729-107-25	TRANSISTOR 2SD1585-L
Q752	8-729-119-78	TRANSISTOR 2SC2785
Q753	8-729-119-78	TRANSISTOR 2SC2785
Q754	8-729-900-74	TRANSISTOR DTC143TS
Q755	8-729-173-38	TRANSISTOR 2SA733
Q756	8-729-173-38	TRANSISTOR 2SA733
Q757	8-729-111-67	TRANSISTOR 2SB1094-L
Q801	8-729-900-65	TRANSISTOR DTA114ES
Q802	8-729-900-65	TRANSISTOR DTA114ES
Q803	8-729-900-65	TRANSISTOR DTA114ES
Q804	8-729-177-43	TRANSISTOR 2SD774
Q805	8-729-801-83	TRANSISTOR 2SB1013
Q806	8-729-801-83	TRANSISTOR 2SB1013
Q807	8-729-205-02	TRANSISTOR 2SA1150
Q808	8-729-801-83	TRANSISTOR 2SB1013
Q809	8-729-801-93	TRANSISTOR 2SD1387
Q810	8-729-801-93	TRANSISTOR 2SD1387
Q811	8-729-801-83	TRANSISTOR 2SB1013
Q812	8-729-900-61	TRANSISTOR DTA114ES
Q851	8-729-900-61	TRANSISTOR DTA114ES
Q852	8-729-900-61	TRANSISTOR DTA114ES
Q901	8-729-900-61	TRANSISTOR DTA114ES
Q902	8-729-900-61	TRANSISTOR DTA114ES

Ref.No.	Part No.	Description
Q903	8-729-900-61	TRANSISTOR DTA114ES
Q904	8-729-900-61	TRANSISTOR DTA114ES
Q905	8-729-900-61	TRANSISTOR DTA114ES
Q906	8-729-900-61	TRANSISTOR DTA114ES
Q907	8-729-900-61	TRANSISTOR DTA114ES
Q908	8-729-900-61	TRANSISTOR DTA114ES
Q909	8-729-900-89	TRANSISTOR DTC144ES
Q910	8-729-900-89	TRANSISTOR DTC144ES
Q1001	1-807-509-11	PHOTO SENSOR (HEAD SW)
Q1002	1-807-509-11	PHOTO SENSOR (HEAD SW)
R101	1-249-590-11	CARBON 39K 5% 1/4W
R102	1-247-700-11	CARBON 100 5% 1/4W
R103	1-249-603-11	CARBON 130K 5% 1/4W
R104	1-247-722-11	CARBON 5.6K 5% 1/4W
R105	1-247-716-11	CARBON 1.8K 5% 1/4W
R106	1-247-138-00	CARBON 2K 5% 1/4W
R107	1-247-887-00	CARBON 220K 5% 1/4W
R108	1-249-429-11	CARBON 10K 5% 1/4W
R109	1-249-431-11	CARBON 15K 5% 1/4W
R110	1-247-717-11	CARBON 2.2K 5% 1/4W
R111	1-249-415-11	CARBON 680 5% 1/4W
R112	1-249-427-11	CARBON 6.8K 5% 1/4W
R113	1-259-419-11	CARBON 430 5% 1/6W
R114	1-259-437-11	CARBON 2.4K 5% 1/6W
R115	1-259-443-11	CARBON 4.3K 5% 1/6W
R116	1-249-441-11	CARBON 100K 5% 1/4W
R117	1-249-429-11	CARBON 10K 5% 1/4W
R151	1-249-421-11	CARBON 2.2K 5% 1/4W
R152	1-249-441-11	CARBON 100K 5% 1/4W
R153	1-249-441-11	CARBON 100K 5% 1/4W
R154	1-249-423-11	CARBON 3.3K 5% 1/4W
R155	1-249-428-11	CARBON 8.2K 5% 1/4W
R156	1-259-419-11	CARBON 430 5% 1/6W
R157	1-259-443-11	CARBON 4.3K 5% 1/6W
R158	1-259-437-11	CARBON 2.4K 5% 1/6W
R159	1-249-427-11	CARBON 6.8K 5% 1/4W
R160	1-249-415-11	CARBON 680 5% 1/4W
R161	1-247-722-11	CARBON 5.6K 5% 1/4W
R162	1-249-561-11	CARBON 2.4K 5% 1/4W
R163	1-247-725-11	CARBON 10K 5% 1/4W
R164	1-249-417-11	CARBON 1K 5% 1/4W
R165	1-249-469-11	CARBON 100K 5% 1/4W
R166	1-247-721-11	CARBON 4.7K 5% 1/4W
R167	1-249-435-11	CARBON 33K 5% 1/4W
R168	1-249-432-11	CARBON 18K 5% 1/4W
R169	1-249-393-11	CARBON 10 5% 1/4W
R170	1-247-883-00	CARBON 150K 5% 1/4W
R171	1-247-725-11	CARBON 10K 5% 1/4W
R301	1-259-436-11	CARBON 2.2K 5% 1/6W
R302	1-249-421-11	CARBON 2.2K 5% 1/4W
R303	1-215-453-00	METAL 22K 1% 1/6W
R304	1-215-457-00	METAL 33K 1% 1/6W
R305	1-249-408-11	CARBON 180 5% 1/4W
R306	1-249-436-11	CARBON 39K 5% 1/4W
R307	1-249-429-11	CARBON 10K 5% 1/4W
R308	1-247-713-11	CARBON 1K 5% 1/4W
R309	1-249-497-11	CARBON 33K 5% 1/4W
R311	1-249-433-11	CARBON 22K 5% 1/4W

Ref.No.	Part No.	Description			
R312	1-249-421-11	CARBON	2.2K	5%	1/4W
R313	1-247-862-11	CARBON	20K	5%	1/4W
R314	1-247-704-11	CARBON	220	5%	1/4W
R315	1-215-453-00	METAL	22K	1%	1/6W
R316	1-215-454-00	METAL	24K	1%	1/6W
R351	1-249-425-11	CARBON	4.7K	5%	1/4W
R503	1-249-437-11	CARBON	47K	5%	1/4W
R504	1-215-469-00	METAL	100K	1%	1/6W
R511	1-249-429-11	CARBON	10K	5%	1/4W
R512	1-249-437-11	CARBON	47K	5%	1/4W
R513	1-249-437-11	CARBON	47K	5%	1/4W
R514	1-215-469-00	METAL	100K	1%	1/6W
R515	1-249-429-11	CARBON	10K	5%	1/4W
R516	1-249-429-11	CARBON	10K	5%	1/4W
R517	1-249-429-11	CARBON	10K	5%	1/4W
R519	1-247-864-11	CARBON	24K	5%	1/4W
R520	1-249-441-11	CARBON	100K	5%	1/4W
R521	1-249-421-11	CARBON	2.2K	5%	1/4W
R522	1-249-427-11	CARBON	6.8K	5%	1/4W
R523	1-249-437-11	CARBON	47K	5%	1/4W
R524	1-249-426-11	CARBON	5.6K	5%	1/4W
R525	1-247-840-00	CARBON	2.4K	5%	1/4W
R526	1-249-425-11	CARBON	4.7K	5%	1/4W
R527	1-249-440-11	CARBON	82K	5%	1/4W
R528	1-249-440-11	CARBON	82K	5%	1/4W
R529	1-249-390-11	CARBON	5.6	5%	1/4W
R530	1-249-429-11	CARBON	10K	5%	1/4W
R531	1-249-429-11	CARBON	10K	5%	1/4W
R532	1-249-431-11	CARBON	15K	5%	1/4W
R533	1-249-434-11	CARBON	27K	5%	1/4W
R534	1-249-439-11	CARBON	68K	5%	1/4W
R551	1-249-437-11	CARBON	47K	5%	1/4W
R552	1-249-437-11	CARBON	47K	5%	1/4W
R553	1-249-429-11	CARBON	10K	5%	1/4W
R554	1-249-421-11	CARBON	2.2K	5%	1/4W
R555	1-249-409-11	CARBON	220	5%	1/4W
R601	1-249-435-11	CARBON	33K	5%	1/4W
R602	1-247-874-11	CARBON	62K	5%	1/4W
R603	1-247-880-11	CARBON	110K	5%	1/4W
R604	1-247-876-11	CARBON	75K	5%	1/4W
R605	1-249-435-11	CARBON	33K	5%	1/4W
R606	1-247-874-11	CARBON	62K	5%	1/4W
R607	1-247-887-00	CARBON	220K	5%	1/4W
R608	1-249-439-11	CARBON	68K	5%	1/4W
R609	1-249-440-11	CARBON	82K	5%	1/4W
R610	1-249-441-11	CARBON	100K	5%	1/4W
R611	1-249-437-11	CARBON	47K	5%	1/4W
R612	1-249-439-11	CARBON	68K	5%	1/4W
R613	1-247-885-00	CARBON	180K	5%	1/4W
R614	1-249-441-11	CARBON	100K	5%	1/4W
R615	1-249-437-11	CARBON	47K	5%	1/4W
R616	1-249-438-11	CARBON	56K	5%	1/4W
R617	1-247-872-11	CARBON	51K	5%	1/4W
R618	1-247-876-11	CARBON	75K	5%	1/4W
R651	1-249-425-11	CARBON	4.7K	5%	1/4W
R652	1-249-405-11	CARBON	100	5%	1/4W
R653	1-249-435-11	CARBON	33K	5%	1/4W



Ref.No.	Part No.	Description			
R654	1-249-425-11	CARBON	4.7K	5%	1/4W
R655	1-249-427-11	CARBON	6.8K	5%	1/4W
R701	1-249-413-11	CARBON	470	5%	1/4W
R702	1-249-425-11	CARBON	4.7K	5%	1/4W
R703	1-249-429-11	CARBON	10K	5%	1/4W
R704	1-249-421-11	CARBON	2.2K	5%	1/4W
R705	1-249-421-11	CARBON	2.2K	5%	1/4W
R706	1-249-426-11	CARBON	5.6K	5%	1/4W
R707	1-249-429-11	CARBON	10K	5%	1/4W
R708	1-249-433-11	CARBON	22K	5%	1/4W
R709	1-247-752-11	CARBON	1K	5%	1/2W
R710	1-249-417-11	CARBON	1K	5%	1/4W
R711	1-249-425-11	CARBON	4.7K	5%	1/4W
R712	1-249-426-11	CARBON	5.6K	5%	1/4W
R713	1-249-417-11	CARBON	1K	5%	1/4W
R751	1-247-710-11	CARBON	560	5%	1/4W
R752	1-247-714-11	CARBON	1.2K	5%	1/4W
R753	1-247-704-11	CARBON	220	5%	1/4W
R754	1-247-725-11	CARBON	10K	5%	1/4W
R755	1-247-708-11	CARBON	470	5%	1/4W
R756	1-247-717-11	CARBON	2.2K	5%	1/4W
R757	1-247-717-11	CARBON	2.2K	5%	1/4W
R758	1-247-717-11	CARBON	2.2K	5%	1/4W
R759	1-247-717-11	CARBON	2.2K	5%	1/4W
R801	1-249-441-11	CARBON	100K	5%	1/4W
R802	1-249-425-11	CARBON	4.7K	5%	1/4W
R803	1-249-441-11	CARBON	100K	5%	1/4W
R805	1-249-437-11	CARBON	47K	5%	1/4W
R806	1-247-903-00	CARBON	1M	5%	1/4W
R807	1-247-887-00	CARBON	220K	5%	1/4W
R808	1-247-887-00	CARBON	220K	5%	1/4W
R809	1-249-435-11	CARBON	33K	5%	1/4W
R810	1-249-435-11	CARBON	33K	5%	1/4W
R811	1-249-409-11	CARBON	220	5%	1/4W
R812	1-249-409-11	CARBON	220	5%	1/4W
R813	1-249-418-11	CARBON	1.2K	5%	1/4W
R814	1-249-423-11	CARBON	3.3K	5%	1/4W
R815	1-249-423-11	CARBON	3.3K	5%	1/4W
R816	1-249-417-11	CARBON	1K	5%	1/4W
R817	1-249-417-11	CARBON	1K	5%	1/4W
R818	1-249-414-11	CARBON	560	5%	1/4W
R819	1-249-417-11	CARBON	1K	5%	1/4W
R820	1-247-840-00	CARBON	2.4K	5%	1/4W
R821	1-249-417-11	CARBON	1K	5%	1/4W
R822	1-249-417-11	CARBON	1K	5%	1/4W
R823	1-249-437-11	CARBON	47K	5%	1/4W
R824	1-249-437-11	CARBON	47K	5%	1/4W
R825	1-249-437-11	CARBON	47K	5%	1/4W
R826	1-249-437-11	CARBON	47K	5%	1/4W
R827	1-249-437-11	CARBON	47K	5%	1/4W
R828	1-249-437-11	CARBON	47K	5%	1/4W
R829	1-249-437-11	CARBON	47K	5%	1/4W
R830	1-249-437-11	CARBON	47K	5%	1/4W
R831	1-249-437-11	CARBON	47K	5%	1/4W
R832	1-249-437-11	CARBON	47K	5%	1/4W
R833	1-249-437-11	CARBON	47K	5%	1/4W
R834	1-249-430-11	CARBON	12K	5%	1/4W


Ref.No.	Part No.	Description
R835	1-247-862-11	CARBON 20K 5% 1/4W
R836	1-249-431-11	CARBON 15K 5% 1/4W
R837	1-249-425-11	CARBON 4.7K 5% 1/4W
R838	1-249-437-11	CARBON 47K 5% 1/4W
R839	1-249-405-11	CARBON 100 5% 1/4W
R840	1-249-429-11	CARBON 10K 5% 1/4W
R851	1-247-903-00	CARBON 1M 5% 1/4W
R852	1-249-422-11	CARBON 2.7K 5% 1/4W
R853	1-249-432-11	CARBON 18K 5% 1/4W
R854	1-249-430-11	CARBON 12K 5% 1/4W
R855	1-249-437-11	CARBON 47K 5% 1/4W
R901	1-249-407-11	CARBON 150 5% 1/4W
R902	1-249-407-11	CARBON 150 5% 1/4W
R903	1-249-411-11	CARBON 330 5% 1/4W
R904	1-249-407-11	CARBON 150 5% 1/4W
R905	1-249-441-11	CARBON 100K 5% 1/4W
R906	1-249-441-11	CARBON 100K 5% 1/4W
R907	1-249-441-11	CARBON 100K 5% 1/4W
R908	1-249-441-11	CARBON 100K 5% 1/4W
R909	1-249-441-11	CARBON 100K 5% 1/4W
R910	1-249-441-11	CARBON 100K 5% 1/4W
R911	1-249-441-11	CARBON 100K 5% 1/4W
R912	1-249-441-11	CARBON 100K 5% 1/4W
R913	1-249-441-11	CARBON 100K 5% 1/4W
R914	1-249-441-11	CARBON 100K 5% 1/4W
R915	1-249-441-11	CARBON 100K 5% 1/4W
R916	1-249-441-11	CARBON 100K 5% 1/4W
R917	1-249-441-11	CARBON 100K 5% 1/4W
R918	1-249-441-11	CARBON 100K 5% 1/4W
R919	1-249-429-11	CARBON 10K 5% 1/4W
R920	1-249-437-11	CARBON 47K 5% 1/4W
R921	1-249-437-11	CARBON 47K 5% 1/4W
R922	1-249-437-11	CARBON 47K 5% 1/4W
R923	1-215-452-00	METAL 20K 1% 1/6W
R924	1-215-452-00	METAL 20K 1% 1/6W
R925	1-215-452-00	METAL 20K 1% 1/6W
R926	1-215-452-00	METAL 20K 1% 1/6W
R927	1-215-452-00	METAL 20K 1% 1/6W
R928	1-215-452-00	METAL 20K 1% 1/6W
R929	1-215-452-00	METAL 20K 1% 1/6W
R930	1-215-445-00	METAL 10K 1% 1/6W
R931	1-215-445-00	METAL 10K 1% 1/6W
R932	1-215-445-00	METAL 10K 1% 1/6W
R933	1-215-445-00	METAL 10K 1% 1/6W
R934	1-215-445-00	METAL 10K 1% 1/6W
R935	1-215-445-00	METAL 10K 1% 1/6W
R936	1-215-460-00	METAL 43K 1% 1/6W
R937	1-215-425-00	METAL 1.5K 1% 1/6W
RV101	1-228-993-00	RES. ADJ. CARBON 5K
RV151	1-228-995-00	RES. ADJ. CARBON 20K
RV152	1-228-995-00	RES. ADJ. CARBON 22K (REC BIAS (L))
RV201	1-228-993-00	RES. ADJ. CARBON 5K
RV251	1-228-995-00	RES. ADJ. CARBON 20K
RV252	1-228-995-00	RES. ADJ. CARBON 22K (REC BIAS (R))
RV511	1-238-097-11	RES. VAR. CARBON 20K/20K (REC LEVEL)
RV512	1-238-085-11	REA. VAR. CARBON 20K/20K (PHONES LEVEL)
RV513	1-238-373-11	RES. VAR. CARBON 5K (BIAS)

Ref.No.	Part No.	Description
S511	1-571-741-11	SWITCH, ROTARY (DOLBY NR)
S512	1-571-742-11	SWITCH, ROTARY (MPX FILTER)
S701	1-570-103-21	SWITCH, PUSH (1 KEY)(POWER)
S702	1-570-307-11	(E)....SWITCH, VOLTAGE CHANGE
S801	1-571-742-11	SWITCH, ROTARY (MONITOR)
S901	1-554-596-21	SWITCH, KEY BOARD (■)
S902	1-554-596-21	SWITCH, KEY BOARD (▶▶)
S903	1-554-596-21	SWITCH, KEY BOARD (◀◀)
S904	1-554-596-21	SWITCH, KEY BOARD (▷)
S905	1-554-596-21	SWITCH, KEY BOARD (REC●)
S906	1-554-596-21	SWITCH, KEY BOARD (PAUSE II)
S907	1-554-596-21	SWITCH, KEY BOARD (REC MUTE●)
S908	1-554-596-21	SWITCH, KEY BOARD (TAPE OPERATION)
S909	1-554-596-21	SWITCH, KEY BOARD (RESET)
S910	1-554-596-21	SWITCH, KEY BOARD (MEMORY)
S911	1-554-423-00	SWITCH, SLIDE (TIMER)
S1001	1-571-081-11	SWITCH (ERASE PROOF)
S1002	1-571-081-11	SWITCH (CASSETTE HALF DET)
S1003	1-571-081-11	SWITCH (70u DET)
S1004	1-571-081-11	SWITCH (METAL DET)
S1005	1-571-820-11	SWITCH, LEAF
SPK101	1-235-186-00	ENCAPSULATED COMPONENT
SPK151	1-235-186-00	ENCAPSULATED COMPONENT
SPK201	1-235-186-00	ENCAPSULATED COMPONENT
SPK251	1-235-186-00	ENCAPSULATED COMPONENT
T151	1-433-344-11	TRANSFORMER, BIAS OSCILLATION
T251	1-433-344-11	TRANSFORMER, BIAS OSCILLATION
T511	1-433-343-11	TRANSFORMER, BIAS OSCILLATION
T701	1-449-484-11	(AEP,UK)....TRANSFORMER, POWER
T701	1-449-575-11	(E).....TRANSFORMER, POWER
T701	1-449-576-11	(US,K630)....TRANSFORMER, POWER
THP701	1-808-612-11	THERMISTOR, POSITIVE
X801	1-567-772-11	VIBRATOR, CERAMIC 4.19MHz
X851	1-527-532-00	OSCILLATOR, CERAMIC 400kHz

ACCESSORY & PACKING MATERIAL

1-465-104-11	(E)...REMOTE COMMANDER (RM-J600)
1-551-734-11	CORD, CONNECTION (RK-74A)
*3-349-005-01	CUSHION
*3-577-909-31	(K630ES)...INDIVIDUAL CARTON
*3-577-909-51	(K630)....INDIVIDUAL CARTON
3-750-049-11	(AEP,UK,E)...MANUAL, INSTRUCTION
3-750-049-21	(US).....MANUAL, INSTRUCTION
3-750-049-31	(K630).....MANUAL, INSTRUCTION
3-750-049-41	(AEP).....MANUAL, INSTRUCTION
3-703-450-01	(US)...INSTRUCTION
3-750-274-41	(E)....INSTRUCTION
4-384-285-01	(E)...COVER, BATTERY

Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.